

ENGINE

EQUIP NUM: 3KR00809

SERIAL NUMBER: 3KR00809

CAT D10R



No Action Required

Interp By: Barry Swindells

Interpreted On: 19-Sep-23

T010-53261-0201

SAMPLE SHIP TIME (days) : 10

TWO HARV'S

**CONTRACTING GIPPSLAND
PTY LTD**

LOCATION: WATSONIA

RECEIVED DATE: 18-Sep-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	08-Sep-23	28-Jul-23	01-Feb-23
Sampled Date	08-Sep-23	28-Jul-23	01-Feb-23
Sample Id	T010-53261-0201	T010-53219-0318	T010-53033-9003
Lab Date	18-Sep-23	07-Aug-23	02-Feb-23
Meter [Hr]	31000	30740	30368
Comp Meter [Hr]			30368
Meter On Fluid			200
Fluid Brand	CAT	CAT	UNKNOWN
Fluid Weight	15W-40	15W-40	15W-40
Fluid Type	ENGINE	ENGINE	ENGINE OIL
Fluid Change	Y	N	N
Filter Change	Y	Y	N
Make Up Fluid []	701		
Total Fluid Added	701	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

		08-Sep-23	28-Jul-23	01-Feb-23
VISCOSITY (CENTISTOKES) ASTM D445				
V100	Viscosity at 100 C	12.93	13.00	13.08
VISCOSITY (CENTISTOKES) ASTM D445				
V40	Viscosity at 40 C	96.31	98.20	101.4

WEAR LEVELS / ADDITIVES

		08-Sep-23	28-Jul-23	01-Feb-23
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu	Copper	1	2	3
Fe	Iron	12	19	19
Cr	Chromium	1	1	0
Al	Aluminum	2	5	2
Pb	Lead	0	0	0
Sn	Tin	0	0	0
Si	Silicon	5	9	5
Na	Sodium	2	2	2
K	Potassium	0	2	2
Mo	Molybdenum	38	41	68
Ni	Nickel	0	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Mn	Manganese	0	1	0
Cd	Cadmium	0	0	0
Ca	Calcium	1628	1612	1338
P	Phosphorus	852	750	943
Zn	Zinc	1043	938	1107
Mg	Magnesium	490	480	256
Ba	Barium	0	0	0
B	Boron	53	65	319

VISCOSITY INDEX

		08-Sep-23	28-Jul-23	01-Feb-23
VI	Viscosity Index	131	129	126

INFRARED (UFM) ASTM E2412

		08-Sep-23	28-Jul-23	01-Feb-23
ST	Soot	10	4	0
OXI	Oxidation	22	22	12
SUL	Sulfur Products	25	23	19
NIT	Nitration	0	0	4

WATER - HOTPLATE

		08-Sep-23	28-Jul-23	01-Feb-23
W	Water	N	N	N

FUEL DILUTION (SCREEN)

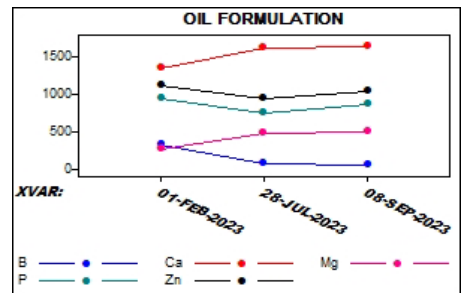
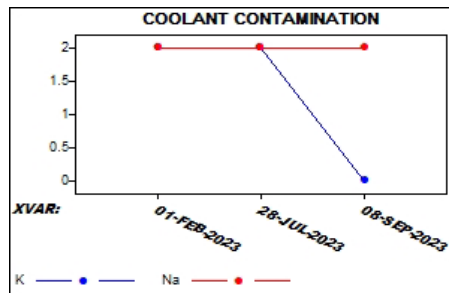
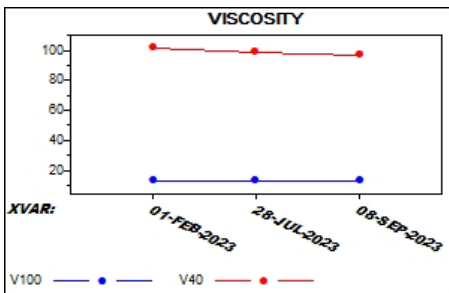
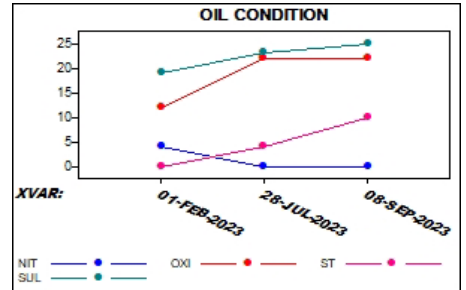
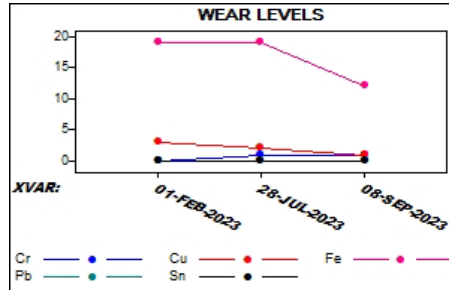
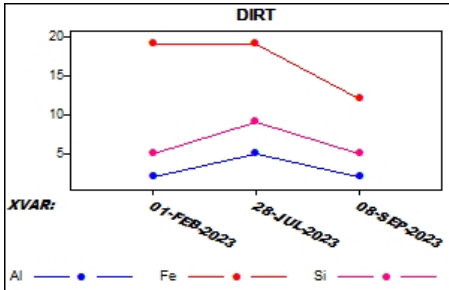
		08-Sep-23	28-Jul-23	01-Feb-23
F	Fuel	N	N	N

FUEL DILUTION (%) ASTM D7593

		08-Sep-23	28-Jul-23	01-Feb-23
PFC	Percent Fuel	<2	<2	2.18

CLEANLINESS

		08-Sep-23	28-Jul-23	01-Feb-23
FERROUS DEBRIS				
PQI	PQ Index	0	0	7



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJIVrs>

TYPE	Dozer, Crawler
MAKE	Caterpillar
MODEL	D10R
ASSET NUMBER	APH00503
CHASSIS / VIN	3KR00809

Report Number	13596 20200617-1416
Date	15/2/23
Created By	William Harvey
Assessor	William Harvey
Assist. Assessor(s)	
Completed By	
Owner	Two Harv's Contracting, Gippsland pty ltd
Assessment Purpose	Hire
State	Victoria

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SECTION 1

IMPORTANT INFORMATION

Contains information outlining the scope and any limitations applicable to this Risk Management Report

SECTION 2

MACHINE DETAILS

Contains standard machine specifications and details of any extras fitted

SECTION 3

RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT

Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4 & 5

RISK TREATMENTS REQUIRED

SECTION 4

Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references

RISK TREATMENTS IN PLACE

SECTION 5

Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

SECTION 6

IMAGES AND NOTES

Contains images & any relevant information entered by the assessor

SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on **15/02/2023**

This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

SECTION 2 MACHINE DETAILS

MACHINE DETAILS		
- NOISE TEST RESULTS	1. Manufacturers specified noise level dBA	
	2. Ambient noise level dBA	
	3. Noise level - Operator position (high idle) dBA	
	4. Noise level - Operator position (low idle) dBA	
	5. Noise level LHS dBA @ m (high idle)	
	6. Noise level Front dBA @ m (high idle)	
	7. Noise level RHS dBA @ m (high idle)	
	8. Noise level Rear dBA @ m (high idle)	
BLADE	Blade height (mm)	2,119
	Blade width (mm)	4,862
CAPACITIES	Blade capacity (m3)	18.5
	Fuel Tank Capacity (Litres)	1109
	Hydraulic Oil Tank Capacity (Litres)	108
DIMENSIONS/WEIGHTS	Ground clearance (mm)	615
	Ground pressure (kPa)	121
	Height to top of cab (mm)	4100
	Length with blade (mm)	4,360
	Length without blade (mm)	9,392
	Operating weight, without ripper (kg)	66,000
	Turn circle diameter, outside track (mm)	6,850
ENGINE	Engine Displacement (Litres)	27
	Engine Hours	30368
	Engine Make & Model	Cat 3412E HEUI
	Engine Number	80M01264
	Net power (kW@rpm)	433@1900
	Number of Cylinders	12
	Torque (Nm@rpm)	
GENERAL	Cutting depth (mm)	674
PLANT CLASSIFICATIONS	Class	
	Year	1997 - 2004
RIPPER	Ripper depth (mm)	
	Ripper weight (kg)	
	Ripper, fixed/adjustable	Adjustable
SAFETY STRUCTURES	FOPS Compliance No.	
	FOPS Serial No.	
	ROPS Compliance No.	
	ROPS Serial No.	
TRACKS	Track gauge (mm)	2,550
	Track length on ground (mm)	3,885
	Track shoe width (mm)	610
	Variable power to each track	
TRANSMISSION	Maximum speed, F/R (km/h)	12.5/15.6
	Speeds F/R	3/4
	Transmission	PS

WORK CAPABILITIES	Dbar pull at 1 km/h, lowest gear (kg)	72,600
EXTRAS	Air Conditioning	
	FOPS	
	Rippers - Rear	
	ROPS - Cabin	

SECTION 3 RISK ANALYSIS / RISK EVALUATION

RISK ANALYSIS		CONSEQUENCE				
		1. INSIGNIFICANT Dealt with by in house first aid	2. MINOR Treated by medical professionals, hospital out patients	3. MODERATE Significant non permanent injury overnight hospital stay	4. MAJOR Extensive permanent injury eg. Loss of fingers, extended hospital stay	5. CATASTROPHIC Death, permanent disabling injury eg. Loss of hand, quadriplegia
LIKELIHOOD	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25
	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15

RISK EVALUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
	HIGH	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
	MEDIUM	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
	LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

RISK TREATMENT	Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. <small>(source AS/NZS ISO 31000:2009)</small>	
	Eliminate	Eliminate the risk source.
	Substitute	Provide an alternative that is capable of performing the same task which is safer.
	Engineering	Provide or construct a physical barrier or guard.
	Administration	Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.
	Personal protective	Provide personal protective equipment to protect the individual from the risk source.





SECTION 4 RISK TREATMENTS REQUIRED








This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.









HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
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

SECTION 5 RISK TREATMENTS IN PLACE








This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.








	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
DELIVERY	 CRUSHING	HIGH 22	MEDIUM 15
	Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray. References: Work Health & Safety Act & Regulations-		
OPERATION	 CRUSHING	HIGH 22	MEDIUM 15
	Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for transport. References: Work Health & Safety Act & Regulations-		
OPERATION	 INCORRECT OPERATION	CRITICAL 24	MEDIUM 15
	Risk Treatments in Place: Operator Competency Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant. References: Work Health & Safety Act & Regulations-		
OPERATION	 INCORRECT OPERATION	HIGH 22	MEDIUM 15
	Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant. This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating. A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.		






HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 INCORRECT OPERATION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Pre-op Checklist Dozer, Crawler A pre-operational checklist is available for this Dozer, Crawler. All operators must complete this checklist prior to operating this Dozer, Crawler.</p> <p>References: Work Health & Safety Act & Regulations-</p>		
 INCORRECT OPERATION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: SOP Dozer, Crawler Safe Operation Procedures are available for this Dozer, Crawler. The information in the Safe Operation Procedures must be followed at all times whilst operating this Dozer, Crawler.</p> <p>References: Work Health & Safety Act & Regulations-</p>		
 INCORRECT OPERATION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.</p> <p>References: AS/NZS4024.1905</p>		
 CRUSHING, FALLING	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Passenger Seat Label This item of plant is fitted with a clear hazard warning label re: Operator only, No passengers. Passengers must not be carried at anytime. This label must be clear and legible at all times whilst this item of plant is in operation.</p> <p>Legislation: State Health & Safety Legislation & Regulation</p> <p>References: AS1319-</p>		
 CRUSHING	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: ROPS seat belt label This item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts must be worn". This label must be present, clean and legible at all times. All operators and passengers must wear seatbelts whilst on this item of plant.</p> <p>References: AS2294, ISO3471</p>		
 ELECTROCUTION, EXPLOSION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Dial Before You Dig (AUS) This item of plant is fitted with a clear hazard warning label re: underground services and advice to "Dial 1100 Before You Dig"to the operator work area. This advice must be adhered to strictly. Digging into an electricity cable or gas pipe can cause serious injury or death. Damaging a pipe or cable may also lead to isolating a community from emergency services such as fire, police or ambulance. This label must be present, clear and legible at all times.</p> <p>References: ISO31000</p>		
 COLLISION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Phone Use label This item of plant is fitted with an instruction label advising that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times.</p> <p>This label must be clear and legible at all times whilst this item of plant is in operation.</p> <p>References: AS1319- , ISO31000</p>		








HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 POISONING, EXPLOSION, BURNS	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Tank ID Label The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)</p> <p>References: Work Health & Safety Act & Regulations-</p>		
 FIRE	HIGH 21	MEDIUM 15
<p>Risk Treatments in Place: Fire Extinguisher This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995</p>		
 HEARING LOSS	HIGH 19	MEDIUM 14
<p>Risk Treatments in Place: Hearing Protection Label - Bystanders The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p> <p>References: AS/NZS1269, AS3781-</p>		
 HEARING LOSS	HIGH 19	MEDIUM 14
<p>Risk Treatments in Place: Hearing Protection Label - Operator The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.</p> <p>References: AS/NZS1269, AS3781-</p>		
 CRUSHING, STRIKING, COLLISION	HIGH 19	MEDIUM 14
<p>Risk Treatments in Place: Tail Swing Label The rear of this item of plant has a hazard warning label re: general plant movement, tail swing, keep clear. It must be present and fully functional and serviceable at all times.</p> <p>References: ISO20474-</p>		
 CRUSHING	MEDIUM 15	MEDIUM 15
<p>Risk Treatments in Place: ROPS Label The warning label stating that the ROPS must not be damaged at any time (including cuts, drill holes and welds) must be present, clean and legible at all times.</p> <p>References: ISO3471</p>		
 CRUSHING	MEDIUM 14	MEDIUM 13
<p>Risk Treatments in Place: Front Grader Blade Label The front blade on this item of plant is fitted with a hazard warning label re: crush zone, keep clear. This label must be present and fully functional and serviceable at all times.</p> <p>References: AS1319- , ISO20474-</p>		
 CRUSHING	MEDIUM 14	MEDIUM 13
<p>Risk Treatments in Place: Ripper Crush Zone Label The rippers on this item of plant are fitted with a hazard warning label re: crush zone, keep clear. This label must be present and fully functional and serviceable at all times.</p> <p>References: AS/NZS4024.1201, ISO20474-</p>		






	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
	 ENTANGLEMENT, SHEARING, BURNS	MEDIUM 14	MEDIUM 13
	<p>Risk Treatments in Place: Engine Guard Label The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.</p> <p>References: AS1319- , AS/NZS4024.1201</p>		
	 CRUSHING, COLLISION	MEDIUM 12	LOW 6
	<p>Risk Treatments in Place: Warning Device (horn) This item of plant is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians.</p> <p>All operators should ensure the warning devices are functional at the start of each shift, by completing pre-start checklists. Warning devices should operate automatically where appropriate (eg reversing)</p> <p>References: ISO7731, ISO9533</p>		
DESIGN COMPLIANCE	 STRIKING, BURNS	HIGH 22	MEDIUM 15
	<p>Risk Treatments in Place: Hydraulic Hoses This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.</p> <p>Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.</p> <p>Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps -</p> <ol style="list-style-type: none"> 1. Stop engine 2. Keep all bystanders clear of the work area 3. Refer to operators manual as to methods to release pressure 4. Wait 5 minutes <p>References: AS2671, AS4024</p>		
	 CRUSHING, ENTANGLEMENT, STRIKING, COLLISION	HIGH 22	MEDIUM 15
	<p>Risk Treatments in Place: Neutral Start This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p>References: AS4024.1603</p>		
 CRUSHING	HIGH 22	MEDIUM 15	
<p>Risk Treatments in Place: Seat Belt This item of plant is fitted with an operator seat belt. This seat belt must be free from damage, and permanently and sturdily attached at all times whilst this item of plant is in operation. Operators must use this seat belt at all times during operation.</p> <p>References: ISO6683</p>			
 CRUSHING	HIGH 22	MEDIUM 15	
<p>Risk Treatments in Place: Earthmoving ROPS A Roll Over Protective Structure (ROPS) to AS 2294, ISO 3471, ISO 12117.1 or 2 or SAE J1040 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. It must also carry a warning label re: wearing of seat belts at all times whilst this item of plant is in operation, and accordingly seat belts must be worn at all times during operation.</p> <p>References: AS2294, ISO3471</p>			

HAZARD(S)		Prelim. Risk Rating	Residual Risk Rating
	CRUSHING, COLLISION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Reverse Movement Alarm A reverse movement sensor alarm is fitted to this item of plant. It must be fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p>References: ISO7731, ISO9533</p>			
	POOR VISIBILITY, COLLISION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Machine Lights This item of plant is fitted with self contained lighting. All of these lights must be fully functional and serviceable whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.</p> <p>References: ISO20474-</p>			
	ENTANGLEMENT	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Engine Guards The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p>References: AS/NZS4024.1601</p>			
	FALLING	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Handrails All operator work platforms are either - a) above 0.5m and below 2.0m from the ground or nearest platform and have three points of contact which can be constantly maintained by any person on the platform performing expected tasks or b) are above 2.0m from the ground or nearest platform and have an approved guardrail which meets the following requirements: 1. All guardrails are at least 1.1m high 2. All guardrails have a mid rail 3. All sides and ends have a kick plate which is at least 100mm high.</p> <p>These work platforms, access points and/or guardrails must be present, fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p>References: AS5327</p>			
	COLLISION	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: Beacon This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation - - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation) - Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage</p> <p>NOTE: more than one beacon may be fitted to meet these criteria.</p> <p>References: ISO20474-</p>			
	OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
<p>Risk Treatments in Place: Plant Modification The plant is in original condition.</p>			
	ENTRAPMENT	HIGH 21	MEDIUM 15
<p>Risk Treatments in Place: Two Operator Exits The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities.</p> <p>References: AS5327</p>			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 POOR VISIBILITY	HIGH 21	MEDIUM 15
<p>Risk Treatments in Place: Windscreen Wipers The windscreen wipers and washers fitted to this item of plant must be fully functional at all times.</p> <p>References: AS/NZS4024.1201</p>		
 CRUSHING	HIGH 21	LOW 5
<p>Risk Treatments in Place: FOPS General This item of plant is fitted with a Level I Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from small falling objects (e.g. bricks, small concrete blocks, hand tools)</p> <p>Before operating this item of plant a task based risk assessment must be conducted to determine the level of FOPS required.</p> <p>Level I - withstands 1,365 joules (e.g. 20kgs @ 7m drop, 70kgs @ 2m drop) - operations such as highway maintenance, landscaping and other construction site services</p> <p>Level II - withstands 11,600 joules (e.g. 200kgs @ 6m drop, 394kgs @ 3m drop) - operations such as site clearing, overhead demolition or forestry</p> <p>This task risk assessment must be undertaken before each operation, in particular when the item of plant is moved to a new location, even if it is within the same site.</p> <p>References: AS2294, ISO10262, ISO3449</p>		
 CRUSHING	HIGH 21	LOW 5
<p>Risk Treatments in Place: FOPS Level II This item of plant is fitted with a level II Falling Objects Protective Structure (FOPS). This structure is designed to protect the operator from heavy falling objects (e.g. trees, rocks). Care should still be exercised when operating in an area with a risk of falling objects.</p> <p>References: AS2294, ISO3449</p>		
 INCORRECT OPERATION	HIGH 20	MEDIUM 14
<p>Risk Treatments in Place: Intuitive Controls The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.</p> <p>References: AS/NZS4024.1906</p>		
 STRAINS	HIGH 19	LOW 5
<p>Risk Treatments in Place: Controls Ergonomics All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.</p> <p>References: AS/NZS4024.1901</p>		
 STRIKING, BURNS	HIGH 19	LOW 5
<p>Risk Treatments in Place: Hydraulic Hose Failure Shield This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this item of plant is in operation.</p> <p>References: AS2671, AS4024, ISO4413</p>		
 INCORRECT OPERATION, SLIPPING	HIGH 17	LOW 6
<p>Risk Treatments in Place: Control Levers/Pedals/Buttons All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.</p> <p>References: AS/NZS4024.1901</p>		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 SLIPPING	MEDIUM 12	LOW 6
<p>Risk Treatments in Place: Operator Work Area Access/Egress Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.</p> <p>All personnel must -</p> <ol style="list-style-type: none"> 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Never carry an object(s) in his/her hand(s) during access and egress. 4. Never jump off machine. <p>References: AS5327</p>		
 FALLING, SLIPPING	MEDIUM 12	LOW 6
<p>Risk Treatments in Place: Access/Egress Instruction Label An instruction label is fitted adjacent access/egress areas to advise all personnel of the following -</p> <ol style="list-style-type: none"> 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Ensure the steps are clean. 4. Never jump off machine. <p>This label must be clear and legible at all times whilst this item of plant is in operation.</p> <p>References: ISO31000</p>		
 POOR VISIBILITY, COLLISION	MEDIUM 12	MEDIUM 11
<p>Risk Treatments in Place: Operator Mirrors The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror on each side to provide rear vision to the operator to avoid striking bystanders and objects.</p> <p>References: ISO14401.1, AS/NZS4024.1201</p>		
 FALLING, SLIPPING, TRIPPING	MEDIUM 12	LOW 6
<p>Risk Treatments in Place: Engine Bay Access Safe access and egress to the engine bay/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.</p> <p>All personnel must -</p> <ol style="list-style-type: none"> 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Never carry an object(s) in his/her hand(s) during access and egress. 4. Never jump off machine. <p>References: AS5327</p>		
 ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6
<p>Risk Treatments in Place: Battery Cover All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.</p> <p>References: AS/NZS4024.1201</p>		

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
	 INCORRECT OPERATION, SLIPPING	MEDIUM 9	LOW 4
Risk Treatments in Place: Operator Floor All work area floors are non-slip and free from damage & debris. Floor area must remain non-slip and free from damage & debris, including rubbish, tools and other items, at all times whilst this item of plant is in use. References: AS/NZS4024.1201, ISO20474-			
	 STRAINS	MEDIUM 9	LOW 1
Risk Treatments in Place: Operator Seat The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times. References: AS/NZS4024.1401, ISO20474-			
	 HEAT STROKE, DEHYDRATION	MEDIUM 9	LOW 4
Risk Treatments in Place: Air Conditioning This item of plant is fitted with an air conditioned cabin. This air conditioned cabin helps control the air quality and temperature for the operator and also provides shade from the sun. The air conditioner must be fully functional and serviceable at all times whilst this item of plant is in operation. References: ISO31000			
	 BURNS	MEDIUM 9	LOW 5
Risk Treatments in Place: Exhaust The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation. References: AS/NZS4024.1201			
MAINTENANCE	 CURRENT OR PREVIOUS STRUCTURAL DAMAGE	CRITICAL 25	MEDIUM 15
	Risk Treatments in Place: Structural Integrity Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.		
	 INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Maintenance Manual The manufacturer's maintenance manual(s) has been supplied for this item of plant These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant. A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use. A full assessment of the competence of people using the book(s) must also be undertaken References: Work Health & Safety Act & Regulations-			
	 STRIKING, BURNS	HIGH 22	MEDIUM 15
Risk Treatments in Place: Hydraulic Damage The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme. References: AS2671, AS4024, ISO4413			

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
 CRUSHING	HIGH 22	MEDIUM 15
<p>Risk Treatments in Place: ROPS Damage The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation.</p> <p>References: AS2294, ISO3471</p>		
 OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
<p>Risk Treatments in Place: Major Fluid Leaks This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.</p> <p>References: ISO31000</p>		
 OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
<p>Risk Treatments in Place: Service Records Service and maintenance records are available for this item of plant.</p> <p>These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.</p> <p>References: Work Health & Safety Act & Regulations-</p>		
 POOR VISIBILITY	MEDIUM 9	LOW 4
<p>Risk Treatments in Place: Windows & Screens Ensure the cabin/work area safety glass windows and screens are kept clean and free from cracks and other damage at all times whilst this item of plant is in use.</p> <p>References: ISO20474- , AS/NZS4024.1201</p>		
 INSTABILITY, COLLISION	MEDIUM 9	LOW 4
<p>Risk Treatments in Place: Tracks The tracks and track components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme.</p> <p>References: ISO20474-</p>		

SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -

TYPE	Dozer, Crawler	Report Number	13596 20200617-1416
MAKE	Caterpillar	Date	15/02/23
MODEL	D10R	Created By	William Harvey
ASSET NUMBER	APH00503	Assessor	William Harvey
CHASSIS / VIN	3KR00809	Assist. Assessor(s)	
	Owner	Two Harvs Contracting, Gippsland pty ltd	
	Assessment Purpose	Hire	
	State	Vic	

OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above.

I also acknowledge that I have received a copy of this risk management report.

<u>DATE</u>	<u>NAME</u>	<u>COMPANY/POSITION</u>	<u>SIGNATURE</u>

Stock No: APH00503

Caterpillar D10R Bulldozer

Serial No: 3KR00809

Reg No:

Cat: DOZ10

Year: 1997

Provisional?:

Supplier:

Model: Caterpillar D10R

Under Repair?

Log

<u>Date</u>	<u>Type</u>	<u>Description</u>	<u>Meter</u>	<u>Labour</u>	<u>Parts</u>
15/02/2022	OTHER	DCT: O-rings, seals			\$355.17
25/01/2022	REPAIR	JB: Make up straps and weld on boggies for RHS track frame removal. Weld up crack in radiator grill guard. Adjust alternator belt (@ 30360 Hours)	30360	\$200.00	
19/01/2022	REPAIR	JB: Investigate noise in no3 cylinder, check over and adjust valves Ok, tighten leaking pipe at transmission oil cooler. Order pivot shaft seal RHS (@ 30360 Hours)	30360	\$350.00	
18/01/2022	SERVICE	JB: Carry out 250hour service as per manufactures specifications (@ 30360 Hours)	30360	\$155.00	
18/01/2022	REPAIR	JB: Connect ET, check for codes (timing sensor fault). Carry out cylinder cut out test OK, Replace radiator cone no 3. Flush system with water and check for leaks. Drain coolant and fill with green coolant. (@ 30360 Hours)	30360	\$350.00	
13/01/2022	OTHER	Westrac: Core Assembly			\$1,462.93
22/12/2021	REPAIR	Woods Radiator Service: Service and test 11 CAT cores. Consumables		\$803.00	\$242.00
22/12/2021	REPAIR	JB: Fit new hoses between radiator and waterpump. Fit all waterpump piping with new gaskets. Remove radiator bottom tank seal blue and refit. Fit all new radiator cones with new seals and top bleed hoses (@ 30355 Hours)	30355	\$450.00	

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20/12/2021	REPAIR	JB: Clean up belly guard bolt thread and remove front belly guard. Remove lower radiator hose and pipe and flush with water. Replace fan belts x 4, replace lower radiator tank seal and remove old section of seal and blow out small pieces with air (@ 30355 Hours)	30355	\$450.00
17/12/2021	OTHER	DCT: 4 x fan belts, 1 x AC belt, 2 x coolant pipe gasket, 1 x waterpump gasket, 11 x radiator lower seals, 9 x radiator top hose, 1 x length lower radiator tank seal		\$680.48
16/12/2021	OTHER	Westrac: Supply GP Pump		\$1,251.81
15/12/2021	REPAIR	JB: Drain coolant, remove all radiator cores x 11. Clean up seal surface area. Pick up new water. Flush bottom tank with water. Found seal U/S in bottom radiator tank. (@ 30355 Hours)	30355	\$550.00
14/12/2021	REPAIR	JB: Retap thread in waterpipe and fit. Fill with coolantm run and check. Check over with temp gun. After operating for an hour found some rotator cores blocked internally number 1,6,7 (@ 30351 Hours)	30351	\$375.00
14/12/2021	METER	End contract A5606 (@ 30355 Hours)	30355	
13/12/2021	REPAIR	JB: Drain coolant and remove waterpump, inspect waterpump. Check and tension impellor bolts, replace seals and refit waterpump. (@ 30351 Hours)	30351	\$385.00
9/12/2021	REPAIR	JB: Fill hydraulic tank with 20 litres, fit pivot shaft reservoir, check engine and trans oil, adjust RHS door striker and order new one. Check temp after operation, needs water pump. Make parts list for waterpump (@ 30344 Hours)	30344	\$220.00
9/12/2021	OTHER	Westrac: Pump G Water		\$1,227.13

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8/12/2021	REPAIR	JB: Check overheating fault. Run and find oil leak, replace blown o-ring at hydraulic pump, fit missing mount bolt in hydraulic pump. Run and check - refit floor plate (@ 30344 Hours)	30344	\$225.00	
7/12/2021	REPAIR	JB: Clean out bellyguard and refit. Fill LHS and RHS pivot shaft with oil and grease. Pick up 2 more nuts and bolts and fit to belly guard. (@ 30330 Hours)	30330	\$225.00	
3/12/2021	REPAIR	JB: Modify new fuel cap and fit. Adjust LHS and RHS track tension. Top up pivot shaft oil level. Connect ET and recheck temperature, standard operation 3/4 on gauge temp oil. Check over and clear codes (@ 30313 Hours)	30313	\$245.00	
2/12/2021	REPAIR	JB: Remove radiator grill and blow out radiator with compressed air. Drain 20Litres coolant and check for contamination. Ok. Top up coolant with water to get the right concentration mix. Replace broken fuel/water separator filter housing. Connect ET and check temperature guage accuracy. (@ 30308 Hours)	30308	\$325.00	
1/12/2021	REPAIR	JB: Test old thermostat found 1 U/S. Clean up and buff gaskets off thermostat harness and coolant pipes. Fit 2 new thermostats and gaskets and fill with coolant. Check pivot shaft oil leak RHS top up oil level. (@ 30300 Hours)	30300	\$450.00	
1/12/2021	METER	Start contract A5606 (@ 30297 Hours)	30297		
4/11/2021	METER	End contract A5400 (@ 30297 Hours)	30297		
29/10/2021	REPAIR	PIRTEK: Service call to replace primer pump, fuel pump and boost air sensor		\$2,355.00	\$180.38
26/10/2021	OTHER	WESTRAC: Pump GRP			\$759.68

Orange Truck & Ag

Run by Jason Litchfield on 20/04/2022 8:11:24 AM

THT06R_DETAIL

Stock No: APH00503

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Serial No: 3KR00809

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26/10/2021	OTHER	WESTRAC: Seal o-ring, pump, seal, sensor, 4 x bolts	\$742.50	
25/10/2021	REPAIR	PIRTEK: Service call to diagnose issues with fuel supply. Fit hose assembly, sockets, plug, nipple, check valve	\$3,132.50	\$1,353.10
15/10/2021	REPAIR	PIRTEK: Service call to install 11 new bottom radiator core seals	\$1,155.00	\$1,696.20
8/10/2021	REPAIR	PIRTEK: Service call to diagnose coolant leak - found to be split bottom seal on Core 4.	\$232.50	
7/10/2021	REPAIR	PIRTEK: Service call to replace seals. Tested OK, put back to service	\$262.50	\$262.04
5/10/2021	REPAIR	PIRTEK: Service call to remove cores 7 & 8 for pressure testing. Found split bottom seal. Pressure test cores 7 & 8. ordered new	\$1,102.50	
2/10/2021	REPAIR	PIRTEK: Service call to replace split #10 radiator core. Top up coolant to correct levels. Supply and install: seal, core assembly, coolant	\$1,795.00	\$3,050.19
1/10/2021	REPAIR	PIRTEK: Service call to diagnose coolant leak. Found to be split radiator cores	\$960.00	
30/09/2021	REPAIR	PIRTEK: Emergency breakdown service call to diagnose diesel leak. Found leak to be cracked diesel tank. Removed tank, repaired and re-fitted, machine back in service	\$1,749.00	\$1,100.00
24/09/2021	REPAIR	PIRTEK: Repair coolant pipe on dozer. Replace turbo cooling hose and repair grease line on ripper	\$566.50	\$465.69
23/09/2021	METER	Start contract A5400 (@ 30130 Hours)	30130	

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Caterpillar D10R Bulldozer

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21/09/2021	REPAIR	JB: Remove old pivot shaft seal LHS and press in new one. Fit LHS track and push arm. Fill both LHS and RHS pivot shaft with oil. Top up trans oil. Grease equalizer bar pin end brushes. Inspect for leaks. All OK (@ 30123 Hours)	30123	\$440.00	
20/09/2021	OTHER	DCT: Seal Pivot Bar, O-Rings			\$342.75
17/09/2021	REPAIR	JB: Refit and tie up the exhaust lagging. Fit intake cyclone clamp properly. Fill pivot shaft with oil. Repair HEUI pump solenoid harness. Fit correct fuel water seperator filter (wrong one fitted last service). Found LHS track pivot shaft seal torn and leaking. Order new. Remove LHS track (@ 30123 Hours)	30123	\$400.00	
16/09/2021	REPAIR	JB: Replace unit injectors number 2 & 3. Connect ET run and carry out cylinder of test OK. Calibrate fuel pressure sensor with ET (@ 30123 Hours)	30123	\$300.00	
16/09/2021	OTHER	WESTRAC: 2 x Inj GP F E			\$1,656.92
15/09/2021	REPAIR	JB: Refit LHS and RHS tracks and torque master link bolts. Reomve dozer from stands. Run and adjust LHS and RHS tracks. Replace hydraulic unit injector number 2 & 3 o-rings at injector. Ordered new Hili injectors for number 2 & 3 cylinders (@ 30123 Hours)	30123	\$400.00	
3/09/2021	REPAIR	JB: Tension track guide bolts (@ 30123 Hours)	30123	\$50.00	
2/09/2021	REPAIR	JB: Torque all sprocket bolts, remov all track guides (@ 30123 Hours)	30123	\$325.00	
1/09/2021	REPAIR	JB: Fit new drive sprockets RHS, torque idler cap bolts with torque gun. (@ 30123 Hours)	30123	\$350.00	

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31/08/2021	REPAIR	JB: Fit new LHS drive sprockets. Fit 2 x new bolts to RHS corner roller and torque belts (@ 30123 Hours)	30123	\$225.00	
27/08/2021	REPAIR	JB: Carry out cylinder cut out test with ET cylinder number 2 and 3 U/S. Carry out injector solenoid test OK. Ordered injector o-rings, possible 2 & 3 leaking. Tighten all lower roller bolts and adjust. Remove old drive sprockts (@ 30123 Hours)	30123	\$365.00	
20/08/2021	OTHER	ITR: 16 x Guide bogie, 32 x 7/8 bolts, 32 x 7/8 washer			\$1,293.44
19/08/2021	REPAIR	RG: Fit new undercarriage		\$350.00	
18/08/2021	REPAIR	RG: Undercarriage: remove all rollers, remove broken botls, clean buff all faces, fit RHS carrier rollers x 8, remove bushes and clean, replace 1 broken bush		\$525.00	
17/08/2021	REPAIR	RG: GE028 Undercarriage change		\$100.00	
9/07/2021	OTHER	ITR: Parts for undercarriage: Link A Salt PPR 44L x 2, nut track, bolt track, track rollers, bolt roller cap, washers, idler, nuts, bolts, segment grp			\$58,324.60
1/06/2021	OTHER	DCT: 3 x Re-useable pins, 3 x J700 retainer			\$83.70
28/05/2021	SERVICE	Carry out Service as per manufacturers recommendation (@ 30121 Hours)	30121		
28/05/2021	REPAIR	PC DIESEL: Locate fuel leak on D10, drain fuel tank, fill fuel tank with C02, prep and weld cracked area in order to repair leak, reassemble machine, repair broken coolant pipe bracket		\$924.00	\$33.60
28/05/2021	OTHER	WESTRAC: Filter as, element			\$200.90
25/05/2021	METER	End contract A4881 (@ 30121 Hours)	30121		

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9/05/2021	REPAIR	PC Diesel: Remove remaining radiator cores, clean all sealing surfaces, remove silastic and wire wheel all sealing surfaces, install all new radiator seals, install 1 new and 10 previously removed radiator cores, refill radiator with coolant, start and test machine at operating temperature, reassemble machine	\$1,056.00	\$130.00
5/05/2021	REPAIR	WESTRAC: Replace track link assembly: Track link required replacing Cause: Track link cracked. Correction: Assembled the new track link, set up the machine, removed the damaged track link. Installed the new track link. Fit track plates, adjusted the track	\$1,314.56	\$137.50
4/05/2021	OTHER	DCT: Core as amocs, bolts, washers, seal amocs		\$1,262.42
2/05/2021	REPAIR	PC DIESEL: Stall machine to achieve working temps, identify coolant leak, drain coolant, remove engine bay guards and radiator guards, remove necessary hoses and mounting & sealingplates, remove 4 radiator cores, identify damaged seal, identify cracked core, plug and cover all exposed cooling parts		\$889.50
22/04/2021	REPAIR	WWMC: Repair leaking radiator seal / electrical issue: pressure test radiator and inspect cooling system leak. Remove leaking radiator cores and replace tank seals and jumper tubes. Fill with water and pressure test - held pressure. Drain out water and fill with coolant. Inspect why machine had no power, replaced leads to battery and one faulty battery - terminal had melted off.	\$1,155.00	\$1,332.00
9/04/2021	OTHER	WESTRAC: 6 x seals and 6 x Hose as		\$472.68

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9/03/2021	METER	Start contract A4881 (@ 29800 Hours)	29800	
8/03/2021	OTHER	DCT: Trac guide and bolts		\$133.70
5/03/2021	REPAIR	JR: Assist westrac with trac pin removal, cleaned up components buffing bolts and plate, installed new trac section and new mins as per manufactures specifications, filled pins with oil (@ 29800 Hours)	29800	\$240.00
5/03/2021	OTHER	WESTRAC: Ring thrust, stopper, plug, ring, bushing, link-track		\$595.98
5/03/2021	OTHER	WESTRAC: Sensor GP-PR		\$236.25
4/03/2021	REPAIR	HR: Removed trac plates x 4 and replaced. Installed new fire extinguisher and mounting bracket inside cab. Install new air pressure sensor. Remove and replace beacon, fuel leak at filter, installed new hose (@ 29798 Hours)	29798	\$65.00
4/03/2021	OTHER	WESTRAC: 2 x pins		\$166.20
3/03/2021	REPAIR	HR: Diagnose hydraulic pump pulsing noise when lifting blade - check oil tank - was low - filled up with 80 Litres of hydraulic oil. @ dash lights - one for air filter restriction, found damaged sensor (waiting on new) Removed floor and fixed broken sensor from transmission oil , reinstalled floor (@ 29797 Hours)	29797	\$120.00
1/12/2020	METER	End contract A4465 (@ 29795 Hours)	29795	
19/10/2020	OTHER	DCT - Retainer Non re-use Pin Non re-use Pin		\$115.42
12/10/2020	OTHER	DCT: 14 x Nuts, washers & Bolts		\$247.94
12/10/2020	OTHER	DCT - Nut, Washer, Plow Bolt		\$247.94

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30/09/2020	REPAIR	Buckleys Plant Maintenance - Remove all belly guards and components to remove torque converter. Installed rear main and flywheel. Installed converter. Connect hoses and drive shaft test run Fit guards and bell guards		\$5,990.00	\$488.52
25/09/2020	OTHER	DCT - Washer Bolt Cap Roller Bolt			\$119.04
22/09/2020	METER	Start contract A4465 (@ 29636 Hours)	29636		
16/09/2020	OTHER	DCT - Nut, Plow bolt, Washer, End Bit LH & RH		\$1,398.80	
4/08/2020	METER		29634		
16/07/2020	REPAIR	Remove LHS EXH Manifold, Heat Sheilds OEM, Remove Exh Manifols & Clean up Head Seal Face (@ 29634 Hours)	29634	\$250.00	
7/07/2020	OTHER	Tighten pivot shaft drain & top up pivot shaft resevoir (@ 29634 Hours)	29634	\$25.00	
2/07/2020	OTHER	Top up pivot shaft (@ 29634 Hours)	29634	\$50.00	
30/06/2020	REPAIR	Fit belly guards, adjust RH track, Top up pivot shafdt reservoir, fit engine bay panels, fit cab floor (@ 29634 Hours)	29634	\$512.50	
29/06/2020	REPAIR	R&R Ripper Hyd Hoses, Fit rear trans guard, top up pivot shaft resevoir (@ 29634 Hours)	29634	\$225.00	
29/06/2020	OTHER	Southern Cross Hydraulics - Suction Hose, Worm Clamp (@ 29634 Hours)	29634		\$29.19
26/06/2020	REPAIR	DCT - Repair Craking in belli plates on right hand track frame. Clean all threads for suspension pads (@ 29634 Hours)	29634	\$1,958.00	

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23/06/2020	OTHER	Fill pivot shaft's with oil, Fill pivot reservoir, Adjust RHS track, Repair grease pod (@ 29634 Hours)	29634	\$225.00	
18/06/2020	REPAIR	Future Fleet - Put seal in track, Fit track frame (@ 29634 Hours)	29634	\$850.00	
18/06/2020	REPAIR	Loctite in Exhaust Studs, Clean up Head Face, Devcon Slight Weep in Engine Sump, Fit Exhaust Manifold & Torque up Bolts 30ft/lb. Fit Heat Shields OEM (@ 29634 Hours)	29634	\$487.50	
18/06/2020	OTHER	G&G CYLINDER: 1 x Surface grind manifold, three bond silicone (@ 29634 Hours)	29634		\$175.45
17/06/2020	REPAIR	Drill Out Broken Bolts/Studs, Reclaim Holes, Remove all Studs & Reclaim Holes (@ 29634 Hours)	29634	\$525.00	
17/06/2020	OTHER	WesTrac - Spacer, Lock Nut, Gasket, Stud Taper (@ 29634 Hours)	29634		\$372.15
17/06/2020	OTHER	WesTrac - Clamp, Stud Taper (@ 29634 Hours)	29634		\$174.90
16/06/2020	OTHER	DCT - O Rings, Seal (@ 29634 Hours)	29634		\$388.16
15/06/2020	OTHER	Advance -	29634	\$400.00	\$1,366.15
		Dump Pipe Lagging,			
		Interpipe Lagging,			
		Muffler Inlet Lagging,			
		Muffler Base Lagging,			
		Muffler End Plate Lagging			
		Labour Fitting Installation (@ 29634 Hours)			
15/06/2020	OTHER	Set up & Load Track Fram onto Tilt Tray (@ 29634 Hours)	29634	\$100.00	

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12/06/2020	OTHER	Pirtek - Flange Plug SAE (@ 29634 Hours)	29634	\$25.16
11/06/2020	REPAIR	Source Steel Plate & Oxy Cut for Ripper Tynes, Remove Panel Between Hydraulic Tank for Cleaning, Fabricate Plates for Bogies, Fit Plates, Position Dozers & Jack up, Fit Stands, Remove Track, Unbolt Pivot Shaft, Remove Track, Unbolt Pivot shaft, Remove Equalizre Bar Pin, Remove Hardware from Push Arm. (@ 29634 Hours)	29634	\$475.00
11/06/2020	OTHER	DCT - Washed Cylinders, Striped blade left cylinders, Cleaned cylinders, Cleaned cylinders all ok bar one cylinder rod scored and pitted, linished rod to remove any sharpe edges, resealed and reassembled cylinders cylinders, striped ripper lift cylinders, Cleaned cylinders, reseales and reassembled cylinders, replaced bearings in barrel off ripper lift cylinders and grease seals, Parts Included (@ 29634 Hours)	29634	\$3,924.01
10/06/2020	REPAIR	Future Fleet - Repairs (@ 29634 Hours)	29634	\$1,615.00
10/06/2020	REPAIR	R&R Hydraulic Hoses, Connect Blade & Ripper Cylinders, Start & Connect Cylinders, Check Engine, Transmission, Hydraulic Oills, Top up all oils, Remove Rear Transmission Guard & Remove Circlip & turn Over (@ 29634 Hours)	29634	\$500.00
10/06/2020	OTHER	WesTrac - Hoses and Assemblies (@ 29634 Hours)	29634	\$1,274.40
10/06/2020	OTHER	DCT - Lock, Seal Rect, Seal lip, O rings, Nuts, bolts (@ 29634 Hours)	29634	\$176.90

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Caterpillar D10R Bulldozer

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10/06/2020	OTHER	DCT - O'rings, Seal, Element Fuel/Water sep (@ 29634 Hours)	29634	\$63.31
9/06/2020	SERVICE	Service Engine, Transmission & Feul Filters, Top up Transmission Oil, R&R Hydraulic Hoses in Hell Hole (@ 29634 Hours)	29634	\$537.50
9/06/2020	REPAIR	Future Fleet - Dehose and fit cyliders, (@ 29634 Hours)	29634	\$595.00
4/06/2020	REPAIR	Fit repaired sump and associated parts, fit new seals to transmission and torque converter, Fit yokes to tailshaft, Remove transmission, Screen assembly, Reseal and refit with new screen, Fill transmission oil and engine oil. (@ 29634 Hours)	29634	\$500.00
4/06/2020	OTHER	WesTrac - Hose, Hose Assembly (@ 29634 Hours)	29634	\$2,810.80
4/06/2020	OTHER	WesTrac - Screen, Gasket, Gask Oil Pan, Gasket Oil (@ 29634 Hours)	29634	\$127.07
3/06/2020	REPAIR	Remove transmission Screen, Remove drive shaft, Transmission yoke and seal, Remove torque converter yoke, Needs yoke replaceing, Drain engine oil and remove sump, Clean, Clean old gasket off and start on fitting pump (@ 29634 Hours)	29634	\$500.00
3/06/2020	OTHER	WesTrac - Yoke (@ 29634 Hours)	29634	\$1,167.74
3/06/2020	OTHER	WesTrac - Oil Filter, Primary Element, secondary Element, Fuel Fitler, Tranmission Filter, Hysraulid Filters, Cab Filter, Cab Air Filter. (@ 29634 Hours)	29634	\$678.70
3/06/2020	OTHER	WesTrac - Seals (@ 29634 Hours)	29634	\$179.74
3/06/2020	OTHER	DCT - Lock, Bolts, Plug, O'Ring (@ 29634 Hours)	29634	\$157.79
3/06/2020	OTHER	BBF - V-Tech Vital RedRTV - 85 GM (@ 29634 Hours)	29634	\$33.48

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Caterpillar D10R Bulldozer

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2/06/2020	REPAIR	Compile fault list, Complile filter list, Drain and remove oil and grease out of track canon, R&R final drive oils, Drain transmission oil, Clean all screens, Remove blade and ripper cyliners, equaliser bar & all lift pins have movement, Leaking sump, RHS track frame cracked above bogle's, LH Track canon leaking, Numerous hoses need replacing (@ 29634 Hours)	29634	\$500.00
2/06/2020	OTHER	Ryans - Complete defect inspection, Start 200hr service (@ 29634 Hours)	29634	\$841.50
2/06/2020	OTHER	ASG: Cat D10R seat and embroidery (@ 29634 Hours)	29634	\$239.50
1/06/2020	REPAIR	Remove belly guards, Relocate Guards to wash bay, Clean out debris underneath, Find brockwn sump, Numerous oil leaks including LH track canon, Numerous rollers U/S (@ 29634 Hours)	29634	\$275.00
26/05/2020	OTHER	Jennigns Glass - Windscreen (@ 29634 Hours)	29634	\$96.90
22/11/2019	SERVICE	Carry out service (@ 29405 Hours)	29405	
14/04/2019	SERVICE	Carry out service (@ 28988 Hours)	28988	
27/09/2018	SERVICE	500 hour service (@ 28467 Hours)	28467	
15/03/2018	OTHER	Major repair - New Equalizer bar fitted (@ 28202 Hours)	28202	
4/10/2017	SERVICE	Carry out 500 hour service (@ 28023 Hours)	28023	
13/03/2017	SERVICE	500 Hour Service. (@ 27507 Hours)	27507	
17/01/2017	SERVICE	250 Hour Service (@ 27749 Hours)	27749	
19/09/2016	SERVICE	250 Hour Service (@ 26726 Hours)	26726	
21/04/2016	SERVICE	500 Hour Service (@ 26487 Hours)	26487	
15/09/2015	SERVICE	250 Hour Service (@ 25815 Hours)	25815	
21/05/2015	OTHER	Change R/H Rear Roller out with a Spare from Yard, old one Over Heating (@ 25746 Hours)	25746	

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11/02/2015	SERVICE	500 Hour Service (@ 25500 Hours)	25500
11/02/2015	SERVICE	500 Hour Service	
22/01/2015	OTHER	A/C Belt Adjust	
11/12/2014	OTHER	Drill Out Four Broken Studs.	25463
		Replace Exhaust's RH Side (@ 25463 Hours)	
8/12/2014	OTHER	Clean Out Radiators	
6/12/2014	OTHER	Blow Out Radiator	
27/11/2014	OTHER	R.O.P and Corner Tip Back on AT Mudder (@ 25371 Hours)	25371
2/11/2014	OTHER	Cleaned Out Radiator and Troughs	
23/08/2014	SERVICE	250 Hour Service (@ 25250 Hours)	25250
2/06/2014	SERVICE	1000 Hour Service (@ 25000 Hours)	25000
3/03/2014	SERVICE	250 Hour Service (@ 24750 Hours)	24750
13/02/2014	SERVICE	Inspected Leaking Rams, Not Leaking Bad Enough to Warrant Repair.	24615
		Ripper Box Crack is Superficial, Will Get Boilermaker to Repair when Available (@ 24615 Hours)	
28/10/2013	SERVICE	500 Hour Service (@ 24500 Hours)	24500
28/08/2013	OTHER	Hard Facing Inspected - Will Be Done When Machine is not Working - Still Fine to Be used.	24243
		Rip Cylinder Taking Grease, Just a Bit Slower (@ 24243 Hours)	
26/08/2013	OTHER	Hard Facing on Outside Bottom of Blade Worn Out.	24243
		Grease Nippel on Rippers Not Gresing Properly (@ 24243 Hours)	
26/06/2013	SERVICE	250 Hour Service (@ 24000 Hours)	24000
5/05/2013	SERVICE	250 Hour Service (@ 23750 Hours)	23750
6/03/2013	SERVICE	500 Hour Service (@ 23500 Hours)	23500
19/01/2013	SERVICE	250 Hour Service (@ 23250 Hours)	23250

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31/07/2012	SERVICE	1000 Hour Service (@ 23011 Hours)	23011
2/04/2012	SERVICE	250 Hour Service (@ 22750 Hours)	22750
1/02/2012	SERVICE	500 Hour Service (@ 22500 Hours)	22500
13/12/2011	OTHER	Filled Pivot Shaft Serveral Times - Check for Leaks - All Good Holding Oil and Staying Full, Had Air Lock (@ 22316 Hours)	22316
28/09/2011	SERVICE	250 Hour Service (@ 22250 Hours)	22250
12/08/2011	OTHER	Replaced O'Ring and Seals on Ripper Left, Ground and Blade Tilt Pivot Spool Valves (@ 21924 Hours)	21924
4/08/2011	SERVICE	2000 Hour Service (@ 22000 Hours)	22000
16/06/2011	SERVICE	250 Hour Service (@ 21750 Hours)	21750
17/05/2011	OTHER	Hydraulic Oil Leak Under Floor Plate. Under Bottom Ripper Frsme Needs Welding (Cracked) (@ 21613 Hours)	21613
30/04/2011	SERVICE	500 Hour Service (@ 21500 Hours)	21500
5/03/2011	SERVICE	250 Hour Service (@ 21250 Hours)	21250
2/12/2010	SERVICE	1000 Hour Service (@ 21000 Hours)	21000
5/11/2010	SERVICE	250 Hour Service (@ 20750 Hours)	20750
22/09/2010	SERVICE	500n Hour Service (@ 20500 Hours)	20500
4/08/2010	SERVICE	250 Hour Service (@ 20250 Hours)	20250
3/05/2010	SERVICE	2000 Hour Service (@ 20000 Hours)	20000
8/02/2010	SERVICE	500 Hour Service (@ 19750 Hours)	19750
4/01/2010	SERVICE	250 Hour Service (@ 19250 Hours)	19250
23/09/2009	SERVICE	1000 Hour Service (@ 19000 Hours)	19000
15/09/2009	SERVICE	250 Hour Servier (@ 18750 Hours)	18750
22/06/2009	SERVICE	500 Hour Service (@ 18500 Hours)	18500
25/03/2009	SERVICE	250 Hour Service (@ 18250 Hours)	18250



MACHINE CHECKLIST

Service @ 250

Date: 18-1-22

Off Hire

Pre Hire

Machine: Cat D10R

Stock No: AP1100 503

Description	Ok/Amount	Details
Cleaning time Estimate	-	
Fuel	-	
Meter Reading	30360	
Next Service Due	-	
Engine Oil Level	✓	Carry out 250 hour service.
Coolant Level	✓	
Hydraulic Oil Level	✓	
Transmission Oil Level	✓	
Check All Fluid Levels	✓	
Check for Leaking Fittings & Hoses	✓	Replace 2x ripper hoses
Air Filter Clean	✓	
Machine Greased	✓	
Rotating Beacon Operational	✓	
Reversing Alarm	✓	
Logbook In Cabin	✓	
Operators manual	✓	
Risk Assessment	✓	
Current Service Records	✓	
Conditional Registration	N/A	
Fire Extinguisher - Correct Size	✓	
Fire Extinguisher Tagged in Date	✓	
UHF Radio Operational	✓	
Battery Isolator	✓	
Emergency Stops	✓	
Reverse Camera Operational	✓	
Seat Working Correctly & no loose Parts	✓	
All tracks and track components are in safe working condition	✓	
Operator floor is non slip, free from damage and rubbish	✓	
Two mirrors fitted & fully functional	✓	
All windows & screen are present, clean and free from damage	✓	
Windscreen wipers are present, free from damage & fully functional	✓	
Air conditioning / heating fully functional	✓	
"Dial before you Dig" warning label present and legible		

Inspection Carried out By James Bennett

Signature



Two Harvs Contracting Gippsland Pty Ltd

Service Date	Service Hours	Next due	Service type	Completed by
18/02/2023	30,368	30,550	1,000	A-plant
4/03/2023	30,371	Site delivery		HRV Workshop
29/05/2023	30,485	Repair	Engine oil leak	Densley
14/06/2023	30,531	30,750	250	Densley
14/06/2023	30,531	Repair	Leaking ripper cylinders	Densley
8/07/2023	30,563	Fault	No fault found	Densley
12/07/2023	30,592	Repair	Replace injectors	Densley
16/07/2023	30,657	Fault	No fault found	Densley
28/07/2023	30,740	31,000	250	HRV Workshop
8/09/2023	31,001	31,250	1000	HRV Workshop