

Hazard Register



Type	MOTOR GRADER	Location	-
Make	CATERPILLAR	Sale Number	3027161
Model	140M2	Lot Number	4
Serial Number			

ID	Hazard Type	Hazard Description
140593.2	CRUSHING.	OPERATORS, MAINTENANCE PERSONNEL AND BYSTANDERS OR THEIR BODY PARTS CAN BE CRUSHED DUE TO MATERIAL FALLING OFF THE GRADER; UNCONTROLLED OR UNEXPECTED MOVEMENT OF THE GRADER; LACK OF ABILITY FOR THE GRADER TO BE SLOWED, SHOPPED OR IMMOBILISED; THE GRADER TIPPING OR ROLLING OVER; PART OF THE GRADER COLLAPSING; OPERATORS BEING THROWN OFF OR UNDER THE GRADER; BEING TRAPPED BETWEEN PARTS OF THE GRADER OR THE GRADER AND MATERIALS OR FIXED STRUCTURES.
140593.5	STRIKING.	OPERATORS OR BYSTANDERS CAN BE STRUCK BY MOVING OBJECTS DUE TO THE UNCONTROLLED OR UNEXPECTED MOVEMENT OF THE GRADER OR MATERIAL HANDLED BY THE MOBILE PLANT BEING EJECTED OR FLYING OR FALLING OFF THE GRADER.
140593.6	HIGH PRESSURE FLUIDS	OPERATORS, BYSTANDERS AND MAINTENANCE PERSONNEL CAN COME IN CONTACT WITH FLUIDS UNDER PRESSURE, DUE TO FAILURE OR MISUSE OF THE GRADER OR LACK OF ISOLATION PROCEDURES.
140593.10	SLIP TRIP FALL	OPERATORS, BYSTANDERS AND PASSENGERS USING AND WORKING AROUND THE GRADER CAN SLIP, TRIP AND FALL DUE TO UNEVEN OR SLIPPERY SURFACES ON AND IN THE VICINITY OF THE GRADER.
140593.11	FALL FROM HEIGHTS	OPERATORS, BYSTANDERS, MAINTENANCE PERSONNEL AND PASSENGERS REQUIRED TO WORK ON THE TOP OF OR OUTSIDE OF THE GRADER CAN FALL FROM HEIGHTS DUE TO LACK OF PROPER WORK PLATFORM; LACK OF PROPER STAIRS OR LADDERS; LACK OF GUARD RAILS OR OTHER EDGE PROTECTION; AND POOR WALKING OR WORK SURFACES, SUCH AS UNEVEN, STEEP OR SLIPPERY WORK SURFACES.
140593.12	ERGONOMICS.	OPERATORS AND PASSENGERS CAN BE INJURED DUE TO POORLY DESIGNED AND MAINTAINED SEATING AND OPERATOR CONTROLS THAT REQUIRE REPETITIVE BODY MOVEMENT; CONSTRAINED BODY POSTURE OR THE NEED FOR EXCESSIVE EFFORT; AND MISMATCH OF GRADER WITH HUMAN TRAITS AND NATURAL LIMITATIONS.
140593.14	HIGH TEMPERATURE	OPERATORS, PASSENGERS AND MAINTENANCE PERSONNEL MAY BE BURNT BY COMING INTO CONTACT WITH PARTS OF THE GRADER AT HIGH TEMPERATURES.
140593.15	FIRE.	OPERATORS, MAINTENANCE PERSONNEL AND PEOPLE REQUIRED TO REFUEL THE GRADER CAN BE INJURED BY FIRE DUE TO FAILURE OF THE GRADER, MISUSE OF THE GRADER OR THE LACK OF OPERATION PROCEDURES.
140593.16	ENVIRONMENTAL TEMPERATURE	OPERATORS CAN SUFFER HEAT STRESS OR HEAT STROKE DUE TO PROLONGED EXPOSURE TO THE SUN OR HIGH TEMPERATURES.
140593.17	CHEMICALS, FUELS	EXPOSURE TO CHEMICALS (LPG, PETROL, DIESEL) THROUGH THE REFUELLING OF THE GRADER CAN CAUSE IRRITATION TO THE EYES, NOSE, THROAT AND SKIN. WHILE

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		PROLONGED EXPOSURE CAN CAUSE IRREVERSIBLE HEALTH ISSUES.
140593.18	TOXIC GASES, VAPOURS AND FUMES	OPERATORS CAN BE INJURED OR SUFFER ILL-HEALTH FROM PROLONGED EXPOSURE TO FUMES GIVEN OFF BY THE OPERATION OF THIS GRADER.
140593.19	NOISE.	OPERATORS AND BYSTANDERS CAN BE INJURED OR SUFFER ILL-HEALTH FROM EXPOSURE TO NOISE LEVELS GREATER THAN 85db(A) CONTINUES OVER 8 HOURS OR 140db(C) PEAK, THROUGH THE OPERATION OF THIS GRADER.
140593.20	VIBRATION.	OPERATORS AND BYSTANDERS CAN BE INJURED OR SUFFER ILL-HEALTH FROM EXPOSURE TO VIBRATION GIVEN OFF THROUGH THE OPERATION OF THIS GRADER.
140593.23	EXCAVATION.	OPERATORS AND BYSTANDERS CAN BE INJURED DUE TO THE GRADER COMING IN CONTACT WITH OR WORKING TOO CLOSE TO UNDER GROUND CABLES AND PIPES.
140593.24	TRAFFIC MANAGEMENT.	BYSTANDERS AND PEOPLE REQUIRED TO WORK AROUND GRADERS CAN BE INJURED DUE TO THE LACK OF TRAFFIC MANAGEMENT PROCEDURES, BARRIERS AND GUARDING.
140593.25	PASSENGERS	PASSENGERS CAN BE SEVERELY INJURED OR KILLED AS A RESULT OF RIDING ON GRADERS WHERE A PASSENGER SEAT AND SEAT BELT IS NOT PROVIDED. PASSENGERS SHOULD NOT RIDE ON OR IN GRADERS WHERE A PASSENGER SEAT AND SEAT BELT IS NOT PROVIDED. NEVER CARRY PASSENGERS ON THE TRAY OR OTHER LOAD HANDLING AREAS.
140593.26	PLANT OPERATION.	THE GRADER SHOULD ONLY BE OPERATED BY COMPETENT, SKILLED AND TRAINED PERSONAL. ALL OPERATOR CONTROLS AND SAFETY SYSTEMS SHOULD BE TESTED PRIOR TO OPERATION AND ALL FAULTS REPORTED IMMEDIATELY. THIS GRADER SHOULD NEVER NOT BE OPERATED WITHOUT ALL GUARDING IN PLACE AND ALL SAFETY SYSTEMS FUNCTIONING CORRECTLY.
140593.27	MAINTENANCE.	THE GRADER SHOULD ONLY BE MAINTAINED BY COMPETENT, SKILLED AND TRAINED PERSONNEL AND ALL ENERGY SOURCES ASSOCIATED WITH THE GRADER TO BE ISOLATED AND DE-ENERGISED WHILE GRADER IS BEING MAINTAINED. THE GRADER SHOULD NOT BE PUT BACK IN SERVICE WITHOUT ALL GUARDS IN PLACE AND ALL SAFETY SYSTEMS TESTED AND OPERATIONAL.
140593.28	INFORMATION, INSTRUCTION, TRAINING & SUPERVISION	ALL OPERATORS, MAINTENANCE PERSONNEL AND PEOPLE REQUIRED TO WORK ON THE GRADER REQUIRE INFORMATION ON THE OPERATION AND HAZARDS OF THE GRADER, INSTRUCTION AND TRAINING ON HOW TO OPERATE, LOAD, UNLOAD AND MAINTAIN THE GRADER AND PERSONAL SHOULD ALWAYS BE SUPERVISED WHEN OPERATING, MAINTAINING, LOADING & UNLOADING OR REQUIRED TO WORK AROUND THE GRADER.

Health and Safety
Plant Safety
Purchaser Information

This plant health and safety information has been prepared by Grays for the purchaser of the plant item as required by National WHS Legislation. Whilst every effort has been made to identify all of the hazards, it should be recognised that all reasonably practicable hazards have been identified given due consideration to:

- state of knowledge about the plant item
- the availability and suitability of ways to eliminate or control the hazards
- the cost of evaluating, eliminating or controlling the hazard

Consequently, if this plant item is being purchased for use at a place of work, the purchaser is reminded of their obligations to involve and consult with employees in identifying foreseeable hazards, assess their risks and to take action to eliminate or control the risks.

In order to assess the risk, it is necessary to consider for all the identified hazards, the chance (likelihood) of something happening that would impact (consequence) on health and safety at the workplace. The following guidelines are provided to assist the purchaser in consistently carrying out an assessment of risk:

Likelihood	Consequences
• Frequency and duration of exposure • Probability of occurrence of hazard or event (including part history of incidents) • Possibility to avoid / minimize or limit the damage, impact or harm • Reliability and effectiveness of existing / established systems of control	• Assume “worst case” injury, but also competent follow-up medical and rehabilitation support • Consider forces or energy levels, highest belt tensions, size of gears, pulleys or other entrapment points and therefore body parts likely to be injured • Consider sharpness of entrapment points, surrounding parts likely to exacerbate injury, and any give in the entrapment point • Consider, will entrapment continue until plant is stopped, or can an injured part travel through the entrapment area • Are temperatures of plant, or chemicals, likely to further injure entrapped person

The outcome of the risk assessment will be a prioritised list of risk control strategies and actions consistent with the following ratings:

- Low risk- may be considered acceptable, where the existing controls in place are seen to be effective, requiring periodic monitoring for effectiveness.
Medium risk- considered to be unacceptable and requiring additional risk controls within medium to long term.
High risk – considered to be unacceptable and requiring action within the short to medium term.
Extreme risk – unacceptable, where immediate action required.

In all of these cases employees/operators must be made aware of the risk controls in place to protect them from the hazards.