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| Mechanical and Safety Inspection  Grader  SMS-MN-INS-0007   |  | | --- | | Inspection Details |   Date: Inspection Location: Inspected by:   |  | | --- | | Customer Details |   Name: Site:   |  | | --- | | Machine Details |   Machine ID: Make: Model:  Serial Number: SMU Reading: |

**Machinery Inspection Check List**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CAB** | **Pass** | **Fail** | **N/A** | **Comments and Faults** |
| Doors/Locks |  |  |  |  |
| Windows |  |  |  |  |
| Mirrors |  |  |  |  |
| Operator Seat |  |  |  |  |
| Seat Belts |  |  |  |  |
| A/C Filters |  |  |  |  |
| A/C Operation, Temp |  |  |  |  |
| UHF/ Digital Radio- Radio Power Supply Hardwired |  |  |  |  |
| AM/FM Radio |  |  |  |  |
| Reverse camera & screen |  |  |  |  |
| Wiper and Washers |  |  |  |  |
| General Cab Condition |  |  |  |  |
| Operator Manual |  |  |  |  |
| Service Sticker |  |  |  |  |
| Cab Detailed\Cleaned |  |  |  |  |
| Heater Tested- Hot |  |  |  |  |
| Horn Operation |  |  |  |  |
| Gauges |  |  |  |  |
| Hour Meter |  |  |  |  |
| **ENGINE** |  |  |  |  |
| Oil Level |  |  |  |  |
| Oil Leaks |  |  |  |  |
| Oil Filter |  |  |  |  |
| Air Filters/Pipes |  |  |  |  |
| Fuel Filter, Pipes & Hoses |  |  |  |  |
| Fuel Level |  |  |  |  |
| Coolant Level |  |  |  |  |
| Coolant Leaks |  |  |  |  |
| Inhibitor Condition |  |  |  |  |
| Fan, Water Pump & A/C belts |  |  |  |  |
| Alternator & Bracket |  |  |  |  |
| Starter Motor |  |  |  |  |
| Turbo |  |  |  |  |
| Air Compressor |  |  |  |  |
| A/Con compressor & Mount |  |  |  |  |
| Engine mounts |  |  |  |  |
| Radiator & mounts |  |  |  |  |
| Radiator pipes & hoses |  |  |  |  |

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| **ENGINE** | **Pass** | **Fail** | **N/A** | **Comments and Faults** |
| Exhaust system |  |  |  |  |
| Charge air cooler & pipes |  |  |  |  |
| EVB operation |  |  |  |  |
| Fan Guards |  |  |  |  |
| Safety Decals |  |  |  |  |
| Paint |  |  |  |  |
| Heater Taps On- No Leaks |  |  |  |  |
| **HYDRAULICS** |  |  |  |  |
| Oil Level |  |  |  |  |
| Hyd. Tank condition |  |  |  |  |
| Hyd. Pump operation |  |  |  |  |
| Control Valves/Leaks |  |  |  |  |
| Lift/Tip/Boom Cylinders |  |  |  |  |
| Tip Cylinder |  |  |  |  |
| Centre Shift Cylinder |  |  |  |  |
| Ripper Lift Cylinder |  |  |  |  |
| Side shift Cylinders |  |  |  |  |
| Wheel lean Cylinders |  |  |  |  |
| Steering Cylinders |  |  |  |  |
| PTO Shaft & Coupling, Safety guards |  |  |  |  |
| Hyd/trans cooler/ mounts |  |  |  |  |
| Wet Brake cooler/mounts |  |  |  |  |
| Hose Condition/Clamps/P clamps |  |  |  |  |
| HMU for leaks |  |  |  |  |
| Check Emergency Steering |  |  |  |  |
| **TRANSMISSION** |  |  |  |  |
| Oil Level |  |  |  |  |
| Oil leaks |  |  |  |  |
| Operation |  |  |  |  |
| Retarder |  |  |  |  |
| Electrical connections |  |  |  |  |
| Shift levers/Pad |  |  |  |  |
| Mountings |  |  |  |  |
| Hose Condition/Clamps/P clamps |  |  |  |  |
| **BRAKES** |  |  |  |  |
| Oil/Fluid Level |  |  |  |  |
| Actuators |  |  |  |  |
| Brake Peddle |  |  |  |  |
| Hose/Pipes |  |  |  |  |
| Park Brake |  |  |  |  |
| Park Brake Pad Wear |  |  |  |  |
| Park Brake Disc Thickness (mm) |  |  |  |  |
| Brake test & record |  |  |  |  |

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| --- | --- | --- | --- | --- |
| **AXLES** | **Pass** | **Fail** | **N/A** | **Comments and Faults** |
| Front Axle |  |  |  |  |
| Tandems |  |  |  |  |
| **BODY CONDITION** |  |  |  |  |
| Front Machine Panels |  |  |  |  |
| Rear Machine Panels |  |  |  |  |
| Side panels |  |  |  |  |
| Paint Condition |  |  |  |  |
| Asset ID Fitted- Front, Side, Rear |  |  |  |  |
| **FRAME/ARTIC** |  |  |  |  |
| Oscillation bearings |  |  |  |  |
| Oscillation nut/retainers |  |  |  |  |
| Front Frame |  |  |  |  |
| Articulation Bearings/Pin Bolts |  |  |  |  |
| Steering Linkages |  |  |  |  |
| Fire Extinguisher Date |  |  |  |  |
| 2nd Fire Extinguisher Date |  |  |  |  |
| Fire Suppression System / Date |  |  |  |  |
| Fire Suppression Bottle / Date |  |  |  |  |
| Rear frame |  |  |  |  |
| Circle |  |  |  |  |
| Circle wear plates |  |  |  |  |
| Auto Greaser/Level/Lines |  |  |  |  |
| Circle Drive Sprocket |  |  |  |  |
| Circle Teeth |  |  |  |  |
| Blade Skin |  |  |  |  |
| Blade Slides |  |  |  |  |
| Blade Lift Caps movement |  |  |  |  |
| Blade tilt movement |  |  |  |  |
| Blade Pivot movement |  |  |  |  |
| Ripper movement |  |  |  |  |
| **ELECTRICS** |  |  |  |  |
| Batteries and Clamps  Rubber over battery  Acid level\Cables |  |  |  |  |
| Headlights |  |  |  |  |
| Work lights |  |  |  |  |
| Indicators |  |  |  |  |
| Brake lights |  |  |  |  |
| Reverse alarm |  |  |  |  |
| Reverse Lights |  |  |  |  |
| Beacon |  |  |  |  |
| Horn |  |  |  |  |
| Gauges/Warning Lights/Alarms |  |  |  |  |
| Relays/Fuses/Breakers |  |  |  |  |
| **G.E.T** |  |  |  |  |
| Blade condition |  |  |  |  |
| Cutting edge |  |  |  |  |
| Scarifies Quantity |  |  |  |  |
| Rippers Quantity |  |  |  |  |

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| **Brake Function Test** | | | | | | |
|  | **Pass** | | **Fail** | **N/A** | | **Comments and Faults** |
| P/Brake Hold RPM |  | |  |  | |  |
| Service Brake Hold RPM |  | |  |  | |  |
| Combined Brake Hold RPM |  | |  |  | |  |
| **Site Spec Fit Out** | | | | | | |
|  | **Pass** | | **N/Fitted** | | **Comments and Faults** | |
| Fan Belt Guards |  | |  | |  | |
| Air Con Belt Guards |  | |  | |  | |
| Manual Release Radiator Cap |  | |  | |  | |
| Rubber Covering Batteries |  | |  | |  | |
| Access Step Condition |  | |  | |  | |
| Hand Rail Condition |  | |  | |  | |
| Reflective Tape Stickers |  | |  | |  | |
| Safety lock out Stickers |  | |  | |  | |
| Isolator Stickers |  | |  | |  | |
| 3 Point Contact Stickers |  | |  | |  | |
| Quick Hitch Safety Pin |  | |  | |  | |
| Fire Suppression Shut Down Working |  | |  | |  | |
| Battery Isolator Working |  | |  | |  | |
| Starter Isolator Working |  | |  | |  | |
| Emergency Stops x 2 Working |  | |  | |  | |
| Hydraulic Lock Out Working |  | |  | |  | |
| Wheel Chocks/ brackets |  | |  | |  | |
| Weed & Seed |  | |  | |  | |
| Window tint |  | |  | |  | |
| Flashing light |  | |  | |  | |
| Low coolant alarm |  | |  | |  | |
| Evac service points | |  |  | |  | |
| UHF radio | |  |  | |  | |
| Cab Pressurizer | |  |  | |  | |
| Am/Fm Radio | |  |  | |  | |
| Mine spec VHF | |  |  | |  | |
| **Extras** | |  |  | |  | |
|  | |  |  | |  | |
|  | |  |  | |  | |
|  | |  |  | |  | |
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**Vehicle & Mobile Equipment Hygiene Inspection Certificate**

This form must be completed

* For all vehicles and mobile equipment entering all project areas.
* For all vehicles and mobile equipment exiting weed risk areas and declared weed risk areas.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Please ✓ | |  |
| The following areas have been inspected and free from dirt and vegetation | Y | N | Comments |
| Internal Areas (cabin) |  |  |  |
| External Areas – Panel/Trays etc. |  |  |  |
| Radiators and Filters |  |  |  |
| Dust Bowls and Cyclones |  |  |  |
| Sump/Engine guard |  |  |  |
| Buckets / Blades / Tyres etc. |  |  |  |
| Running Gear / Bash Plates |  |  |  |
| Tyres / Wheel Arches / Tracks |  |  |  |
| Undercarriage / Other areas |  |  |  |
| Prior to exiting areas known to be contaminated with Declared Plants or Significant Environmental Weeds the Contractor shall wash-down vehicles and mobile plant designated areas as per the requirements outlined in SMS Procedure Weed Hygiene Document Number HSE12.10. | | | |
| Vehicle wash-down completed |  |  |  |

**Blade Measurements**



|  |  |  |
| --- | --- | --- |
| **Part ID** | **New Thickness (mm)** | **Most Worn Measurement (mm)** |
| Blade Skin |  |  |

**GET Condition**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **New** | **One Flip or Less than 50% Worn** | **More Than 50% Worn** |
| **Cutting Edge** |  |  |  |
| **Corner Tips** |  |  |  |
| **Ripper Tip** |  |  |  |

**Tyre Inspections**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Position 1** | | **Position 2** | | **Position 3** | | **Position 4** | | **Position 5** | | **Position 6** | |  | |
|  | **Tyre Size** |  | |  | |  | |  | |  | |  | |  | |
|  | **Brand** |  | |  | |  | |  | |  | |  | |  | |
|  | **Pattern** |  | |  | |  | |  | |  | |  | |  | |
|  | **Spec** |  | |  | |  | |  | |  | |  | |  | |
|  | **Tread Depths - Inner/Outer** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Average Tread Depth (mm)** |  | |  | |  | |  | |  | |  | |  | |
|  | **Tyre Serial Number** |  | |  | |  | |  | |  | |  | |  | |
|  | **Rim Serial Number** |  | |  | |  | |  | |  | |  | |  | |
|  | **Tyre Pressures** |  | |  | |  | |  | |  | |  | |  | |
|  | **Position** | **Issues Found** | | | | | | **Recommendations** | | | | | |  | |
|  | **1** |  | | | | | |  | | | | | |  | |
|  | **2** |  | | | | | |  | | | | | |  | |
|  | **3** |  | | | | | |  | | | | | |  | |
|  | **4** |  | | | | | |  | | | | | |  | |
|  | **5** |  | | | | | |  | | | | | |  | |
|  | **6** |  | | | | | |  | | | | | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Inspections Carried Out By**

Name: Signature: