

INTEGRATED MANAGEMENT SYSTEM MANUAL
QUALITY-SAFETY-ENVIRONMENT

Document No.: SF-33.1 PLANT MAINTENANCE RECORD

Revision Date: 18/07/2024

PR-01 GRADER (1AL2MW)

PR Number: 01
Type: Grader
Manufacturer: Caterpillar
Model: 12H
Year: 2004
Registration No.: 1AL2MW
Serial No.: 2463905



Maintenance Date: 2024-06-03
Short Description: Service
Supplied By: Darcy Davis/ Ethan Coleman
Hour Metre / KM Reading: 19700
Photos:
Notes: Repair light bracket
Replace Artic pin retainer bolts
Replace O-Rings on triangle covers on transmission x 2
Replace Hydraulic hose on black sideshift ram
Clean out belly plate
Tighten hose clamps
Replace blade slide bushes
Replace lift ram shims
Straighten covers
Everything checked

Maintenance Date: 2024-04-19
Short Description: Maintenance
Supplied By: Darcy Davis
Hour Metre / KM Reading: 19513
Photos:
Notes: Transmission oil leak fixed
Everything checked

Maintenance Date: 2024-02-13
Short Description: Maintenance
Supplied By: Ben Broome
Hour Metre / KM Reading: 19330
Photos:
Notes: Cutting edges, changed to cat - back wombat road

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Maintenance Date: 2024-02-01
Short Description: Maintenance
Supplied By: Ben Broome
Hour Metre / KM Reading: 19278
Photos:
Notes: Replace cutting edge

Maintenance Date: 2023-12-18
Short Description: Maintenance
Supplied By: Rod Higgins
Hour Metre / KM Reading: 19345
Photos:
Notes: Remove cuttingedges and clean face up

Maintenance Date: 2023-12-18
Short Description: Maintenance
Supplied By: Nathan Adams
Hour Metre / KM Reading: 19220
Photos:
Notes: Fit cutting edges
Adjust doors
Test A/C system

Maintenance Date: 2023-11-30
Short Description: Maintenance
Supplied By: Nathan Adams
Hour Metre / KM Reading: 19082
Photos:
Notes: Faults fixed:
RH rear door adjusted
Transmission filter, heui filter and circle pinion
New blades
Fie extinguisher added
UHF ariel

Maintenance Date: 2023-11-24
Short Description: Service
Supplied By: Nathan Adams
Hour Metre / KM Reading: 4200
Photos:

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Notes:

- Fitted new ariel
- Tighten up circle drive nut and refilled oil
- Drawbar ball needs replacing
- Changed secondary air filter
- Changed engine oil filter
- Changed fuel system secondary filter
- Changed fuel system water separator
- Cleaned fuel tank cap
- Changed hydraulic oil filter
- Changed hydraulic oil
- Changed drive oil
- Cleaned tandem breather
- RH rear door needs adjusting
- Fixed transmission filter - leaking
- Fixed Heui filter plug - leaking
- Fixed circle pinion leaking
- New blade wear slides
- Adjusted circle
- Everything checked
- Next service due: 19400 hrs

Maintenance Date: 2023-09-05
Short Description: Maintenance
Supplied By: Nathan Adams
Hour Metre / KM Reading: 18965
Photos:
Notes: Fixed brakes fault
Fixed reverse alarm fault
Fixed Left front grease unit/ nuts
Everthing checked

Maintenance Date: 2023-03-31
Short Description: 250 hr service
Supplied By: Nathan Adams, Ethan Coleman, Darcy Davis
Hour Metre / KM Reading: 18650
Photos:

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Notes: Cleaned Engine Air Filter Primary Element - Engine Air Filter Secondary Element -
Engine Air Filter Service Indicator Screen
Changed Fuel System – Fill Oil Filter
Changed Engine Oil - Fuel System Water Separator
Greased.
Next service due: 18900 hrs

Maintenance Date: 2023-02-23
Short Description: Maintenance
Supplied By: Darcy Nath Pigs Ethan
Hour Metre / KM Reading: 18532
Photos:
Notes: Replaced main wiring loom
Replaced air compressor
Replaced A/C hoses.

Maintenance Date: 2023-02-16
Short Description: Service
Supplied By: Nathan Adams
Hour Metre / KM Reading: 18510
Photos:
Notes: Change out gear selector
Fitted all new solenoid valves and coils to transmission control valve
Fault lost drive in forward and reverse gears
Solenoid where corroded and rusted, a couple had broken wires at the solenoid.

Maintenance Date: 2023-02-13
Short Description: Service
Supplied By: Nathan Adams
Hour Metre / KM Reading: 18500
Photos:

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Notes:

- Rebuild on grader circle
- New Moldboard
- New cutting edges
- New blade hanger pins, bearings and hosing
- New though rods and nuts
- Fitted new rod to RH lift cylinder - resealed cylinder
- Re-bushed RH blade trunnion pivot
- Resealed blade side shift cylinder
- Resealed blade tilt cylinder
- Rebuild circle drive - new hosing fitted - old one cracked
- All new circle and moldboard wear strips
- Straightened out steering arm
- Changed tandem drive oils
- Fitted new floor mat and work lights
- fitted new aveil UHF
- Changed slope meter on dash.

Maintenance Date: 2022-11-22
Short Description: Service
Supplied By: Ethan Coleman
Hour Metre / KM Reading: 18350
Photos:
Notes:

Replaced blade cylinder bushes and also had the cylinder resealed.
Changed Oil& engine Oil.Changed engine filter. Changed fuel secondary filter.
Cleaned fuel tank strainer. Changed hydraulic system oil filter.
Cleaned transmission & differential oil filter & screens. Cleaned engine air pre-cleaner.
Changed belt & lubricated blade lift cylinder socket.
Next service due: 18600

Maintenance Date: 2021-12-24
Short Description: 250 hour Service
Supplied By: Rod Higgins & Nathan Adams
Hour Metre / KM Reading: 17565
Photos:
Notes:

250 hr service. 26 ltrs engine oil.
Fitted pos 2 king pin retainer. Fitted new bearings to LHS lift buvion.
adjusted circle. Changed out blade angle hose.
Fitted new blade sides. Put new bolts near side shift cylinder covers.
Fitted new LHS rear air brake line
Fitted new LHS door handle.
Next service due: 17815 hrs

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Maintenance Date: 2021-08-03
Short Description: 250 hr service.
Supplied By: Danny McAlpine
Hour Metre / KM Reading: 17155
Photos:
Notes: Changed engine oil & filter. Checked fluid levels.
Cleaned air filters. Replaced top radiator hose.
Repaired headlights.
Replaced power wiper motor & hevi filter hoses.
Next service due: 17400 hrs

Maintenance Date: 2021-04-25
Short Description: 250 hr service.
Supplied By: Danny McAlpine & Ben Broome
Hour Metre / KM Reading: 16904
Photos:
Notes: Changed engine oil & filter.
Changed fuel filters.
Next service due: 17150 km

Maintenance Date: 2021-03-11
Short Description: Repairs and Maintenance
Supplied By: Danny McAlpine
Hour Metre / KM Reading: 16827
Photos:
Notes: rotated corner cutters on blade.
Replaced blade bushes x 5
Greased

Maintenance Date: 2020-10-07
Short Description: 250 hr service.
Supplied By: Danny McAlpine
Hour Metre / KM Reading: 16692
Photos:
Notes: Checked fluid levels. Changed engine oil & filters. Changed fuel filter.
Made up & replaced heuy pump filter hoses.
Next service due: 16942 hrs

Maintenance Date: 2020-06-21
Short Description: Replace Drive Coupling
Supplied By: William Adams

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Hour Metre / KM Reading: 16410

Photos:

Notes:

Suspected torsional coupling failure. Remove grill, bonnet, side doors, covers, intake pipes, coolant pipes, drain coolant and remove radiator. drain fuel from machine and remove fuel tanks.

remove lines, hoses, harnesses and the battery/ air system carrier. Remove belly guards, drive shaft guard, drive shaft, hoses, harnesses. support the engine and remove the transmission.

6 bolts had come out and 6 bolts had broken in the flex drive coupling. Locate all of the broken pieces and remove broken bolts from the flywheel. tap out holes in the flywheel and finish the surface off to remove any high spots. Cut down longer bolts to use more available thread. Fit a new flex coupling and loctite and tension fasteners. Clean mounting surfaces, fit new mounts and reinstall the transmission. Fit all new trans and diff suction, cooler and pump lines. Replace transmission oil filter. Refit all removed components, reconnect all lines hoses and harnesses.

Refit panels and guards (many missing fasteners replaced). Fill cooling system and the power train. Refill diesel tanks. Start and run machine, check fluid and coolant levels. Operate machine to confirm repair.

Maintenance Date: 2020-06-03

Short Description: Changed engine oil & filter

Supplied By: Danny McAlpine

Hour Metre / KM Reading: 16418

Photos:

Notes:

Maintenance Date: 2020-01-29

Short Description: Service & Repairs

Supplied By: Danny McAlpine

Hour Metre / KM Reading: 15842

Photos:

Notes:

Replaced R/H tandem box pivot bushes. Replaced tie rod ends, R/H/R brake hose. Fitted UHF + aerial. Changed fuel filters. Serviced, changed engine oil & filters. Cleaned air filter & cabin filters. Repalced pins & bushes in front end of grader. Repalced clearance lights on roof. Fitted missing bolts from blade.

Next service due: 16,100