



CONSTRUCTION EQUIPMENT

CATERPILLAR M-2 - REAR AXLE



Sample No: VCP442898
Oil Type: MOBIL MOBILTRANS HD 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP442898	VCP404272	VCP408922	VCP390143
Sample Date	25 Jan 2024	21 Nov 2023	25 Oct 2023	07 Mar 2023
Machine Hours	6256	5984	5892	5507
Oil Hours	272	1991	1899	1500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 21210 MARTINSBURG RD
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OIL CONDITION

Visc @ 40°C	cSt	90.3	96.4	95.1	95.3
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	6	6	6
Sodium	ppm	0	2	<1	1
Potassium	ppm	0	0	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	11	29	18	13
Copper	ppm	<1	6	5	4
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	6	1	<1	1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	3169	3663	4024	3667
Magnesium	ppm	59	19	19	21
Zinc	ppm	1065	1005	1192	1031
Phosphorus	ppm	837	890	887	800
Barium	ppm	0	0	0	0
Boron	ppm	16	7	2	4

Depot: MARDIC
Unique No: 10857295
Signed: Wes Davis
Report Date: 01 Feb 2024



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VOLVO GRAPHS

