



CONSTRUCTION EQUIPMENT

CATERPILLAR M-2 - REAR AXLE



Sample No: VCP404272
Oil Type: MOBIL MOBILTRANS HD 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP404272	VCP408922	VCP390143	VCP340104
Sample Date	21 Nov 2023	25 Oct 2023	07 Mar 2023	05 Jan 2023
Machine Hours	5984	5892	5507	5274
Oil Hours	1991	1899	1500	1250
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 21210 MARTINSBURG RD
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OIL CONDITION

Visc @ 40°C	cSt	96.4	95.1	95.3	96.3
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	6	6	7
Sodium	ppm	2	<1	1	1
Potassium	ppm	0	0	<1	<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	29	18	13	14
Copper	ppm	6	5	4	4
Lead	ppm	0	<1	0	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	1	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	<1	1	1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3663	4024	3667	3914
Magnesium	ppm	19	19	21	22
Zinc	ppm	1005	1192	1031	1089
Phosphorus	ppm	890	887	800	855
Barium	ppm	0	0	0	0
Boron	ppm	7	2	4	1

Depot: MARDIC
Unique No: 10763022
Signed: Wes Davis
Report Date: 28 Nov 2023



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GRAPHS

