



CONSTRUCTION EQUIPMENT

CATERPILLAR M-2 - FRONT AXLE



Sample No: VCP416559
Oil Type: MOBIL MOBILTRANS HD 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP416559	VCP390148	VCP340106	VCP366676
Sample Date	25 Oct 2023	07 Mar 2023	05 Jan 2023	07 Nov 2022
Machine Hours	5892	5507	5274	4984
Oil Hours	1899	1500	1250	1000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	96.3	96.6	96.0	96.7
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CONTAMINATION

Silicon	ppm	7	7	7	5
Sodium	ppm	<1	1	1	0
Potassium	ppm	0	<1	<1	2

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	35	26	23	22
Copper	ppm	5	4	4	4
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	1	1	1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3866	3647	3966	4138
Magnesium	ppm	20	22	23	21
Zinc	ppm	1146	1026	1111	1145
Phosphorus	ppm	848	800	867	915
Barium	ppm	0	0	0	0
Boron	ppm	11	6	4	4

Depot: MARDIC
Unique No: 10723490
Signed: Sean Felton
Report Date: 02 Nov 2023



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GRAPHS

