



CONSTRUCTION EQUIPMENT

CATERPILLAR M-2 - FRONT AXLE



Sample No: VCP404392
Oil Type: MOBIL MOBILTRANS HD 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP404392	VCP416559	VCP390148	VCP340106
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

MARYLAND ENVIRONMENTAL SERVICES
 21210 MARTINSBURG RD
 DICKERSON, MD
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 Contact: ALAN PARRISH
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 T: (301)428-8185
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OIL CONDITION

Visc @ 40°C	cSt	95.9	96.3	96.6	96.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	7	7	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	42	35	26	23
Copper	ppm	5	5	4	4
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	2	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	3730	3866	3647	3966
Magnesium	ppm	22	20	22	23
Zinc	ppm	1012	1146	1026	1111
Phosphorus	ppm	904	848	800	867
Barium	ppm	0	0	0	0
Boron	ppm	2	11	6	4

Depot: MARDIC
Unique No: 10763024
Signed: Don Baldrige
Report Date: 30 Nov 2023



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GRAPHS

