



# CONSTRUCTION EQUIPMENT

## CATERPILLAR M-2 - REAR AXLE



**Sample No:** VCP408922  
**Oil Type:** MOBIL MOBILTRANS HD 30  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP408922</b>	VCP390143	VCP340104	VCP366648
Sample Date	<b>25 Oct 2023</b>	07 Mar 2023	05 Jan 2023	07 Nov 2022
Machine Hours	<b>5892</b>	5507	5274	4984
Oil Hours	<b>1899</b>	1500	1250	991
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>95.1</b>	95.3	96.3	96.5
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### CONTAMINATION

Silicon	ppm	<b>6</b>	6	7	5
Sodium	ppm	<b>&lt;1</b>	1	1	0
Potassium	ppm	<b>0</b>	<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	<b>18</b>	13	14	11
Copper	ppm	<b>5</b>	4	4	4
Lead	ppm	<b>&lt;1</b>	0	1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	1	1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	1	1
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	2
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>4024</b>	3667	3914	4029
Magnesium	ppm	<b>19</b>	21	22	18
Zinc	ppm	<b>1192</b>	1031	1089	1102
Phosphorus	ppm	<b>887</b>	800	855	885
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	4	1	3

**Depot:** MARDIC  
**Unique No:** 10723491  
**Signed:** Sean Felton  
**Report Date:** 02 Nov 2023



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## GRAPHS

