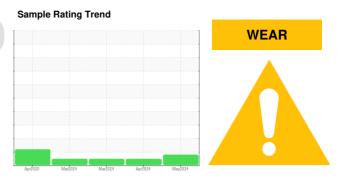


# **OIL ANALYSIS REPORT**





## Machine Id **CATERPILLAR 980M L56**

Rear Differential

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

### **DIAGNOSIS**

### Recommendation

COMPONENT FAILURE. (Customer Sample Comment: Left rear final drive failed )

The copper level is abnormal. No visible metal detected.

#### Contamination

There is no indication of any contamination in the oil.

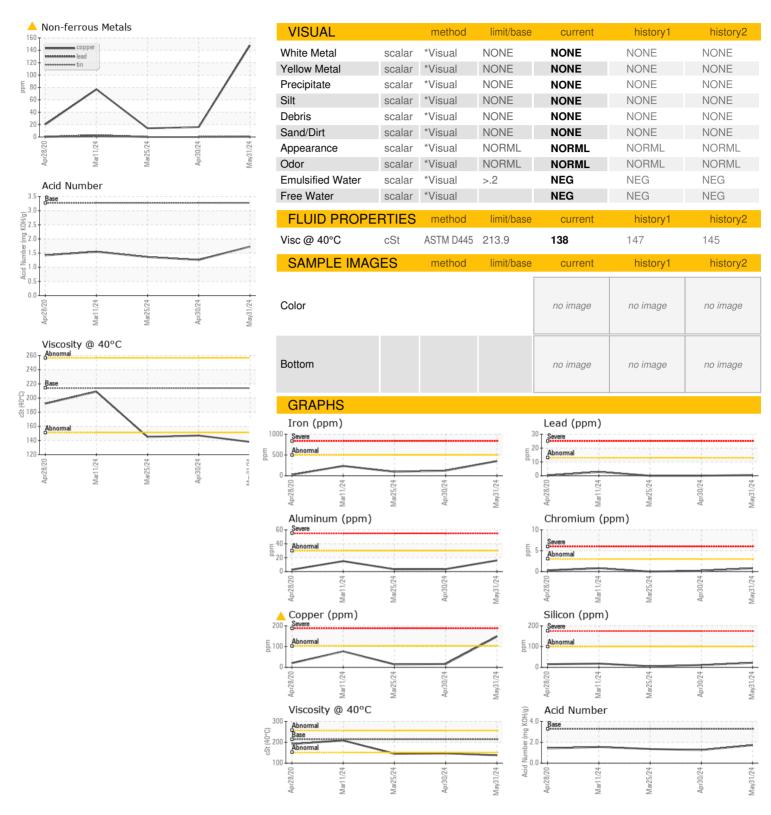
#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0123765	PCA0123769	PCA0118491
Sample Date		Client Info		31 May 2024	30 Apr 2024	25 Mar 2024
Machine Age	hrs	Client Info		17374	16917	16640
Oil Age	hrs	Client Info		250	500	294
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	353	123	94
Chromium	ppm	ASTM D5185m	>3	<1	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	16	4	3
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>103	<u> </u>	16	14
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	191	238	213
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	3	2	1
Magnesium	ppm	ASTM D5185m	9	<1	7	6
Calcium	ppm	ASTM D5185m	3114	397	331	329
Phosphorus	ppm	ASTM D5185m	1099	896	1004	831
Zinc	ppm	ASTM D5185m	1245	128	145	134
Sulfur	ppm	ASTM D5185m	7086	28112	19655	17646
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	22	11	5
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.73	1.26	1.36



## OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number : 06201619

: PCA0123765 Unique Number : 11063742 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024

: 07 Jun 2024 Tested Diagnosed : 09 Jun 2024 - Don Baldridge

SCRAP METAL SERVICES (SMS Mill Services LLC)

1500 COMMERCIAL AVE MINGO JUNCTION, OH

US 43938 Contact: FRANK NALLY

fnally@scrapmetalservices.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SCRMIN [WUSCAR] 06201619 (Generated: 06/09/2024 15:36:12) Rev: 1

Submitted By: TIM RANDOLPH

T:

F: