

OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR 980M L56

Component Rear Differential Fluid

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

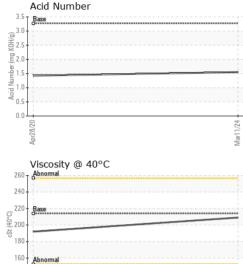
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0118451	PCA0016952	
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Mar 2024	28 Apr 2020	
Wear	Machine Age	hrs	Client Info		16346	5001	
All component wear rates are normal.	Oil Age	hrs	Client Info		2183	1000	
Contamination	Oil Changed		Client Info		Changed	Changed	
There is no indication of any contamination in the oil.	Sample Status				NORMAL	ABNORMAL	
-	CONTAMINAT	ION	method				history2
Fluid Condition The AN level is acceptable for this fluid. The	Water		WC Method	>.2	NEG	NEG	
condition of the oil is suitable for further service.	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>500	236	24	
	Chromium	ppm	ASTM D5185m	>3	<1	<1	
	Nickel	ppm	ASTM D5185m	>3	0	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>30	15	3	
	Lead	ppm	ASTM D5185m	>13	3	<1	
	Copper	ppm	ASTM D5185m	>103	77	20	
	Tin	ppm	ASTM D5185m	>5	<1	0	
	Antimony	ppm	ASTM D5185m	>5		0	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	6	<1	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	0	0	0	
	Manganese	ppm	ASTM D5185m	0	4	<1	
	Magnesium	ppm	ASTM D5185m		23	8	
	Calcium	ppm	ASTM D5185m	3114	2966	2699	
	Phosphorus	ppm	ASTM D5185m	1099	982	868	
	Zinc	ppm	ASTM D5185m	1245	1163	1062	
	Sulfur	ppm	ASTM D5185m	7086	6078	8740	
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>100	18	15	
	Sodium	ppm	ASTM D5185m		1	1	
	Potassium	ppm	ASTM D5185m	>20	0	0	
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.55	1.423	

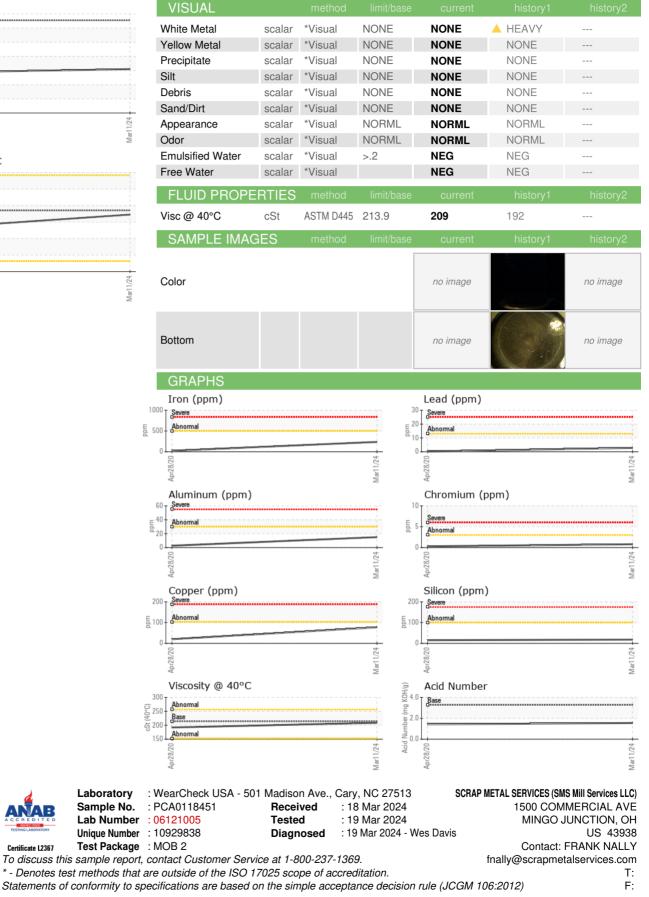


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Certificate L2367