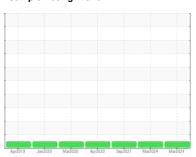


OIL ANALYSIS REPORT

Sample Rating Trend









CATERPILLAR 980M L56

Component **Transmission (Manual)**

PETRO CANADA PRODURO TO-4 SAE 30 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

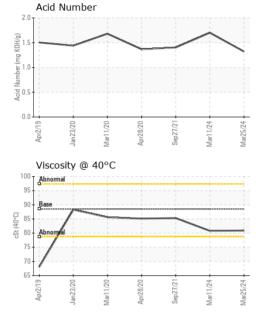
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118499	PCA0118516	PCA0016894
Sample Date		Client Info		25 Mar 2024	11 Mar 2024	27 Sep 2021
Machine Age	hrs	Client Info		16640	16346	9611
Oil Age	hrs	Client Info		294	1011	300
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	16	6	9
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
Lead	ppm	ASTM D5185m	>45	0	2	<1
Copper	ppm	ASTM D5185m	>225	<1	2	8
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	11	4	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	9	3	2
Manganese	ppm	ASTM D5185m	9	<1	0	<1
Magnesium	ppm	ASTM D5185m	1	57	45	24
Calcium	ppm	ASTM D5185m	3131	2740	2880	3234
Phosphorus	ppm	ASTM D5185m	1194	783	958	1095
Zinc	ppm	ASTM D5185m	1281	967	1146	1326
Sulfur	ppm	ASTM D5185m	3811	4037	4593	4285
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	3	2	1
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.32	1.70	1.403

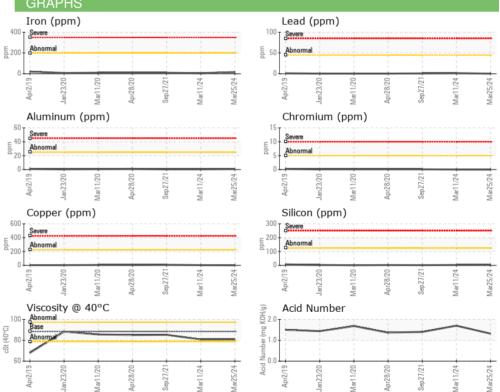


OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	80.9	80.8	85.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
GRAPHS					





Certificate L2367

Laboratory Sample No. Lab Number : 06132218 Unique Number: 10951683

Test Package : MOB 2

: PCA0118499

Received **Tested** Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 28 Mar 2024 : 29 Mar 2024

: 29 Mar 2024 - Wes Davis

SCRAP METAL SERVICES (SMS Mill Services LLC) 1500 COMMERCIAL AVE

MINGO JUNCTION, OH US 43938

Contact: FRANK NALLY

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

fnally@scrapmetalservices.com T:

* - 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)

F: