

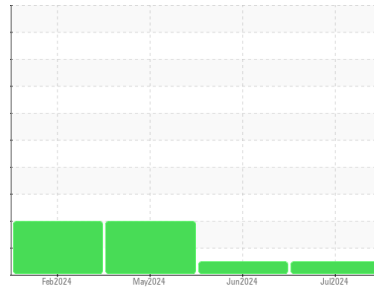


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR AD30 TRK227 (S/N 100016191)
 Component
Rear Right Planetary
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



NORMAL



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 oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0947194	WC0951791	WC0937676
Sample Date	Client Info		06 Jul 2024	08 Jun 2024	08 May 2024
Machine Age	hrs	Client Info	3518	3202	2809
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	60	2	319
Chromium	ppm	ASTM D5185(m) >10	<1	0	3
Nickel	ppm	ASTM D5185(m) >10	<1	0	2
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >25	2	1	4
Lead	ppm	ASTM D5185(m) >25	0	0	1
Copper	ppm	ASTM D5185(m) >75	15	0	61
Tin	ppm	ASTM D5185(m) >10	0	0	2
Antimony	ppm	ASTM D5185(m) >5	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

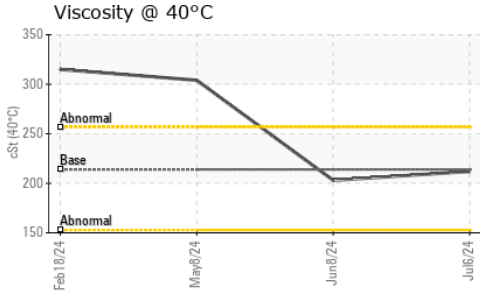
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	10	1	80
Barium	ppm	ASTM D5185(m) 0	<1	0	5
Molybdenum	ppm	ASTM D5185(m) 0	<1	0	0
Manganese	ppm	ASTM D5185(m) 0	<1	0	4
Magnesium	ppm	ASTM D5185(m) 9	14	10	4
Calcium	ppm	ASTM D5185(m) 3114	3743	3511	753
Phosphorus	ppm	ASTM D5185(m) 1099	871	859	380
Zinc	ppm	ASTM D5185(m) 1245	988	1036	147
Sulfur	ppm	ASTM D5185(m) 7086	8069	10329	9998
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	20	13	27
Sodium	ppm	ASTM D5185(m)	1	<1	7
Potassium	ppm	ASTM D5185(m) >20	<1	<1	1



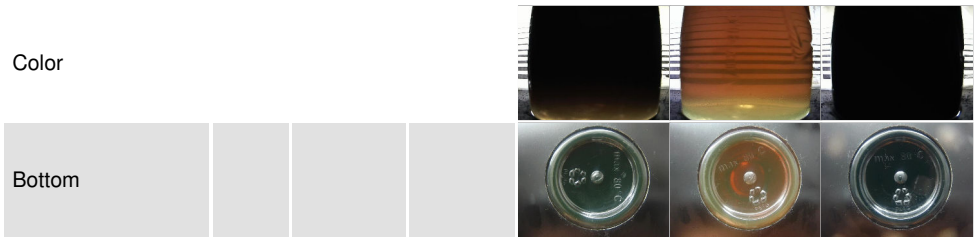
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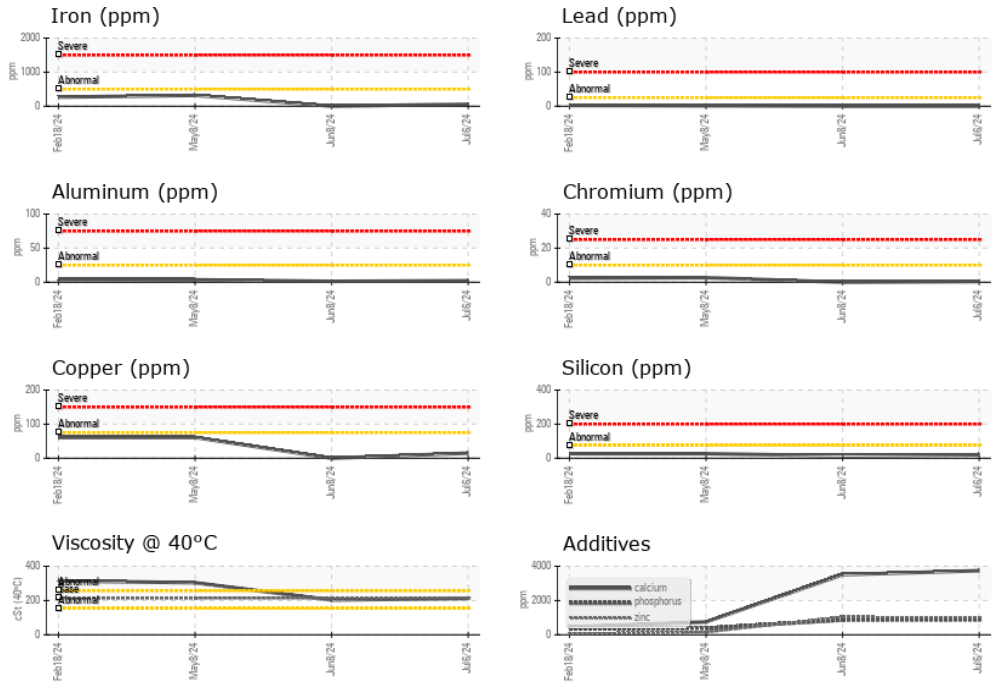
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	212	203 ▲ 304

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0947194
Lab Number : **02647131**
Unique Number : 5812683
Test Package : MOB 1

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

Received : 10 Jul 2024
 Tested : 10 Jul 2024
 Diagnosed : 10 Jul 2024 - Wes Davis
 Contact: Mitch Lamontagne
 AEM_KL_macassaoilsampleresults@agnicoeagle.com
 T: (705)567-5208
 F: (705)567-5221