



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
MINING
 Machine Id
ME-014 CATERPILLAR 773G 7CS00407
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)



DIAGNOSIS

▲ Recommendation

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear

Silver ppm levels are abnormal.

Contamination

There is no indication of any contamination in the fluid.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0941659	---	---
Sample Date	Client Info		10 Jun 2024	---	---
Machine Age	hrs	Client Info	49842	---	---
Oil Age	hrs	Client Info	49842	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	8	---
Chromium	ppm	ASTM D5185(m)	>5	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>7	▲ 8	---
Aluminum	ppm	ASTM D5185(m)	>25	1	---
Lead	ppm	ASTM D5185(m)	>45	23	---
Copper	ppm	ASTM D5185(m)	>225	34	---
Tin	ppm	ASTM D5185(m)	>10	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

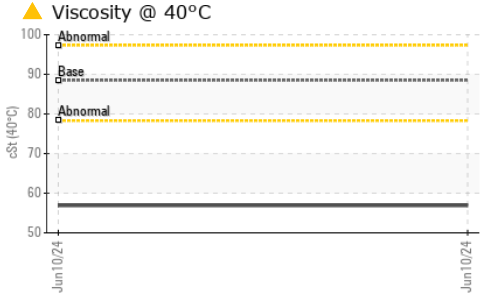
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	2	---
Manganese	ppm	ASTM D5185(m)	9	<1	---
Magnesium	ppm	ASTM D5185(m)	1	15	---
Calcium	ppm	ASTM D5185(m)	3131	3195	---
Phosphorus	ppm	ASTM D5185(m)	1194	833	---
Zinc	ppm	ASTM D5185(m)	1281	1004	---
Sulfur	ppm	ASTM D5185(m)	3811	3185	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>125	5	---
Sodium	ppm	ASTM D5185(m)		3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---



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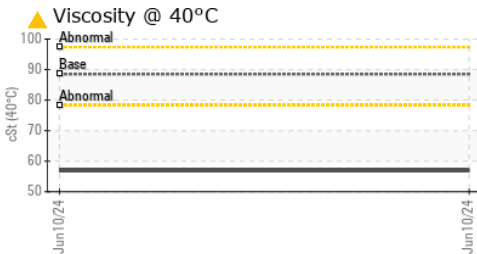
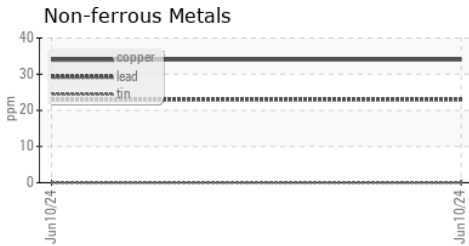
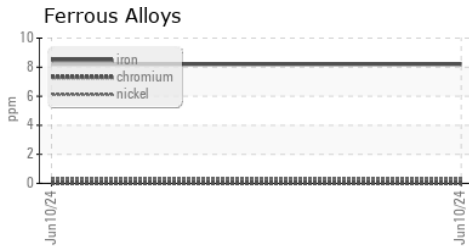
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	▲ 56.9	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941659 **Received** : 21 Jun 2024
Lab Number : **02643437** **Tested** : 21 Jun 2024
Unique Number : 5800976 **Diagnosed** : 21 Jun 2024 - Kevin Marson
Test Package : CONST

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.

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