



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
059596-194
Component
Swing Drive

Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289615	LH0274777	LH0202698
Sample Date		Client Info		09 Jun 2024	23 Nov 2023	15 Nov 2022
Machine Age	hrs	Client Info		19988	19244	17530
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1570	40	2	273
Chromium	ppm	ASTM D5185(m)	>15	0	0	2
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>2	0	<1	<1
Lead	ppm	ASTM D5185(m)	>10	0	<1	1
Copper	ppm	ASTM D5185(m)	>495	16	11	52
Tin	ppm	ASTM D5185(m)	>25	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

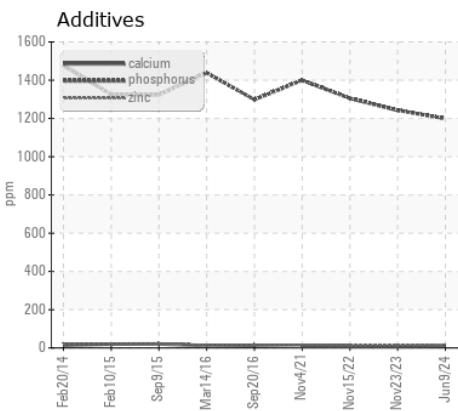
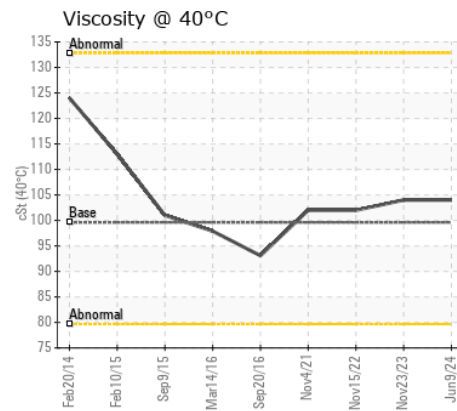
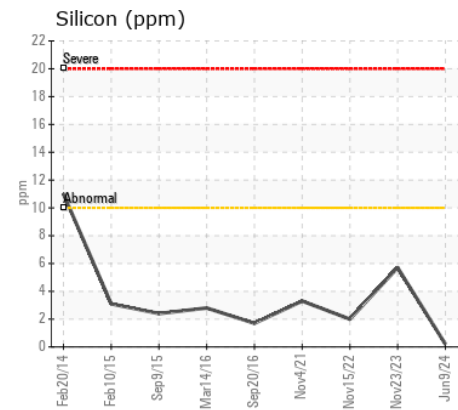
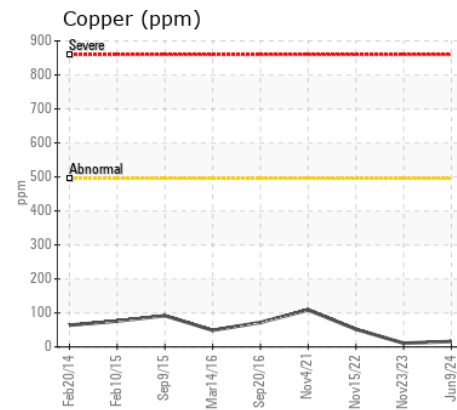
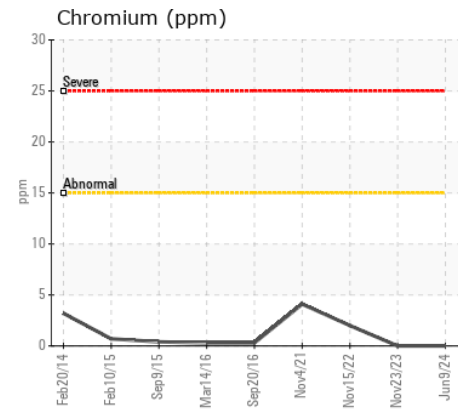
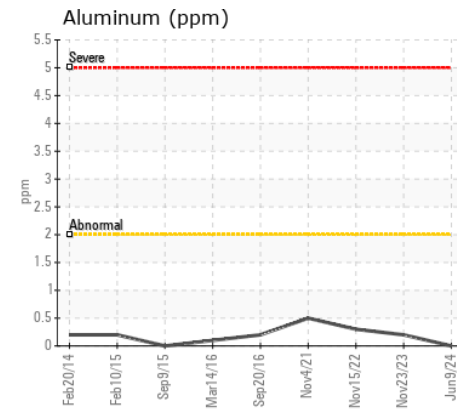
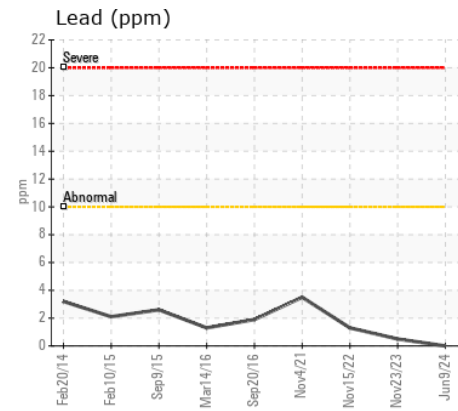
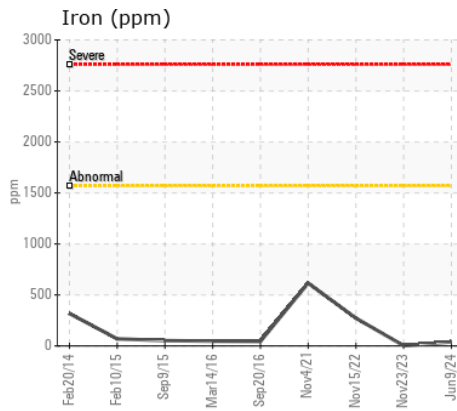
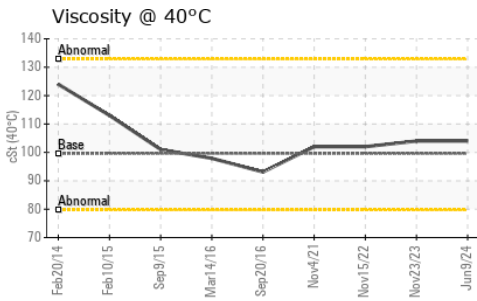
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>10	<1	6	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)	328	316	295	295
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		<1	0	2
Magnesium	ppm	ASTM D5185(m)	1	2	1	1
Calcium	ppm	ASTM D5185(m)	7	13	7	8
Phosphorus	ppm	ASTM D5185(m)	1145	1199	1243	1305
Zinc	ppm	ASTM D5185(m)	3	10	14	13
Sulfur	ppm	ASTM D5185(m)	17909	20334	20786	21159
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	104	104	102



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289615 **Received** : 12 Jun 2024
Lab Number : 02641499 **Tested** : 12 Jun 2024
Unique Number : 5799038 **Diagnosed** : 12 Jun 2024 - Wes Davis
Test Package : MOB 1

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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.