



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
LIEBHERR L566 036511-1168

Component
Splitter Box

Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278890	LH0257429	LH0239191
Sample Date		Client Info		21 Jan 2024	14 Sep 2023	07 Nov 2022
Machine Age	hrs	Client Info		14008	13330	11757
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		None	None	None
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	▲ 278	10
Chromium	ppm	ASTM D5185(m)	>5	0	1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	<1
Lead	ppm	ASTM D5185(m)	>30	1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	5	2	5
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

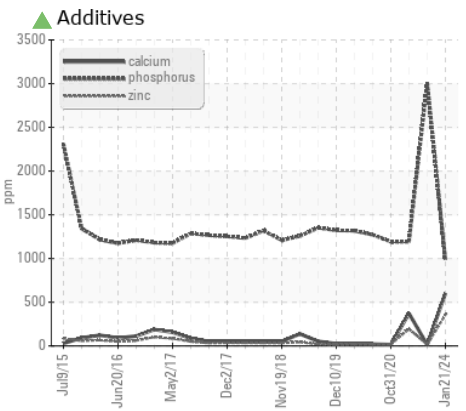
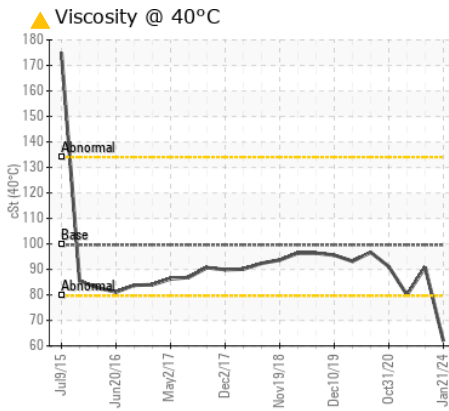
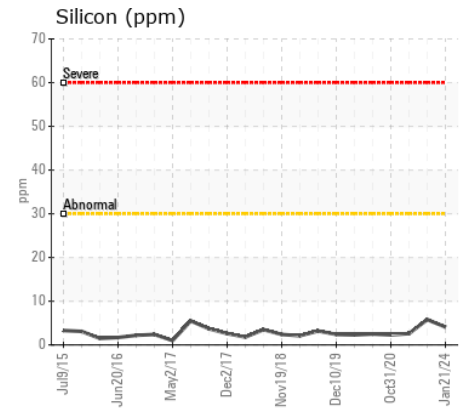
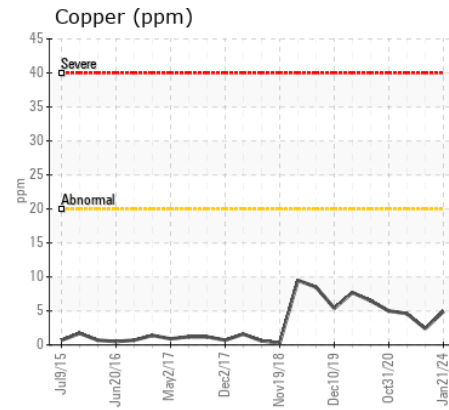
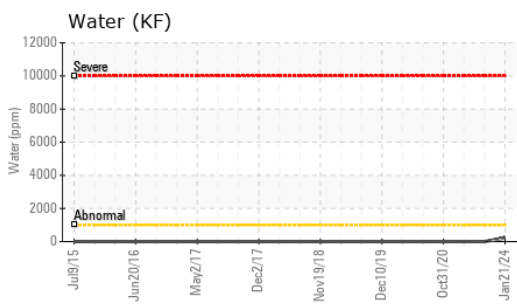
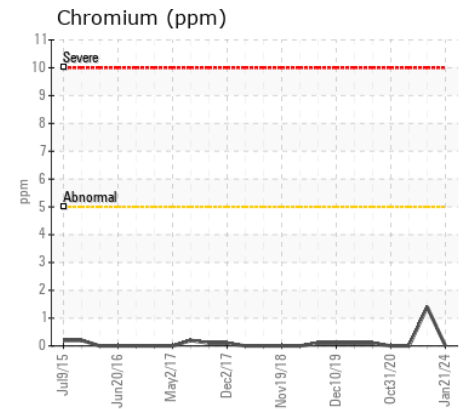
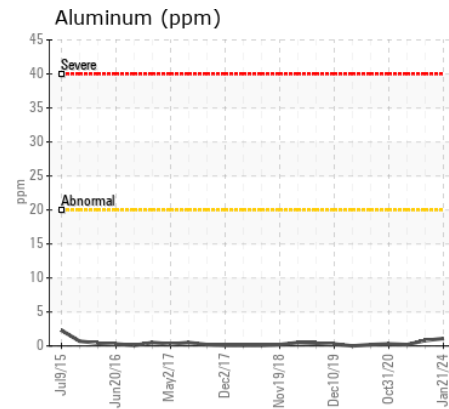
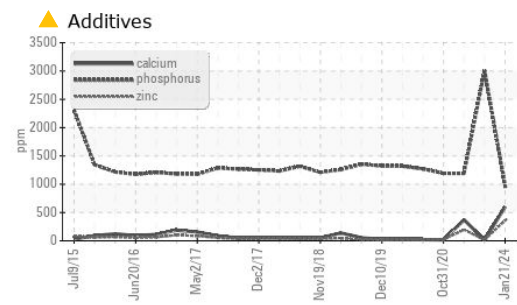
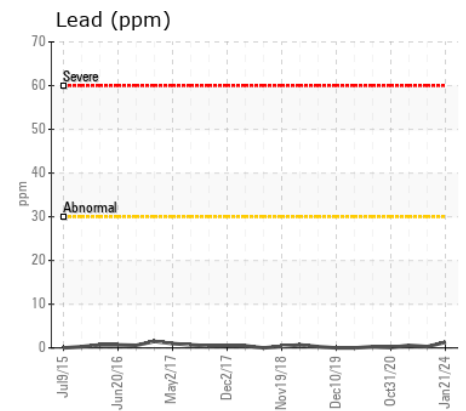
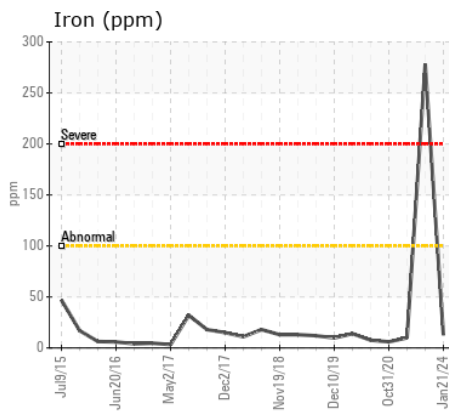
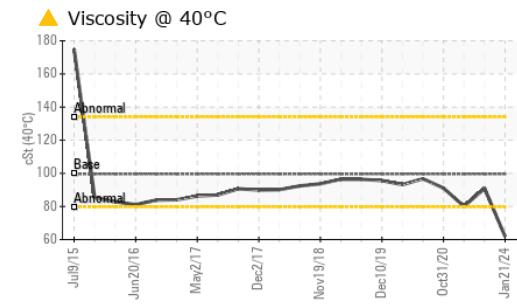
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	4	6	3
Potassium	ppm	ASTM D5185(m)	>20	4	1	0
Water	%	ASTM D6304*	>0.1	0.022	---	---
ppm Water	ppm	ASTM D6304*	>1000	221	---	---
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	.2%	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>25	2	2	<1
Boron	ppm	ASTM D5185(m)	328	161	270	231
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)		1	▲ 27	1
Manganese	ppm	ASTM D5185(m)		0	2	<1
Magnesium	ppm	ASTM D5185(m)	1	6	3	4
Calcium	ppm	ASTM D5185(m)	7	▲ 601	13	371
Phosphorus	ppm	ASTM D5185(m)	1145	982	▲ 3009	1191
Zinc	ppm	ASTM D5185(m)	3	▲ 356	16	195
Sulfur	ppm	ASTM D5185(m)	17909	▲ 12306	17889	16613
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	▲ 61.9	90.9	80.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0278890 **Received** : 22 Jan 2024
Lab Number : 02610370 **Diagnosed** : 23 Jan 2024
Unique Number : 5711456 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KF)

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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.