



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(336303)
Machine Id
LIEBHERR R938 050385-1650
Component
Right Final Drive
Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0182163	LH0238481	---
Sample Date		Client Info		02 Oct 2023	03 Oct 2022	---
Machine Age	hrs	Client Info		1892	1274	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		None	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>500	920	135	---
Chromium	ppm	ASTM D5185(m)	>10	14	2	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		2	<1	---
Silver	ppm	ASTM D5185(m)		<1	6	---
Aluminum	ppm	ASTM D5185(m)	>25	62	15	---
Lead	ppm	ASTM D5185(m)	>25	<1	0	---
Copper	ppm	ASTM D5185(m)	>50	<1	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

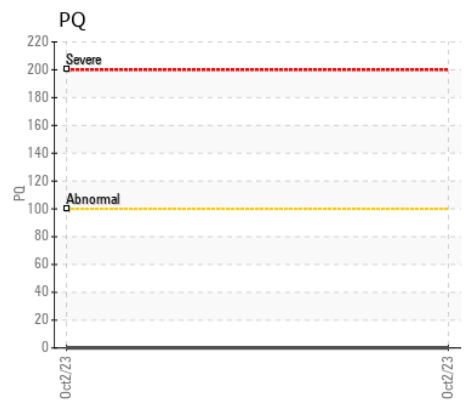
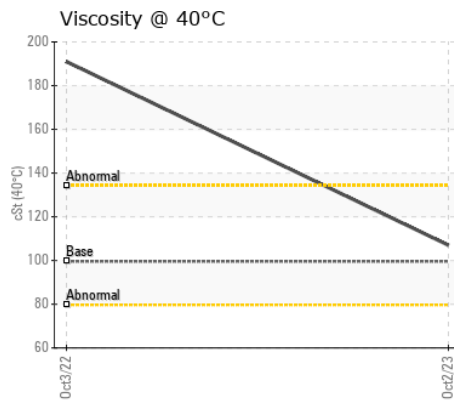
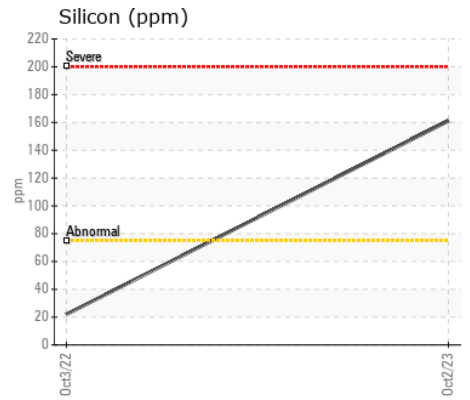
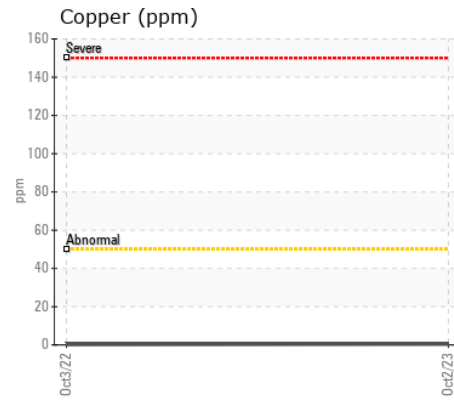
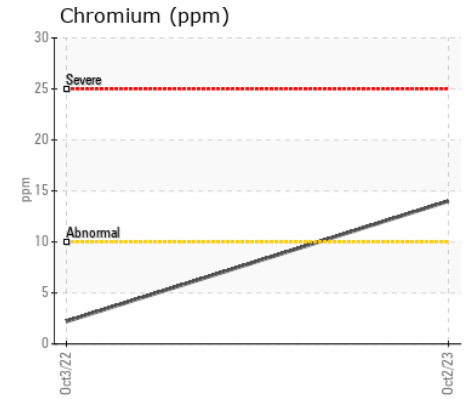
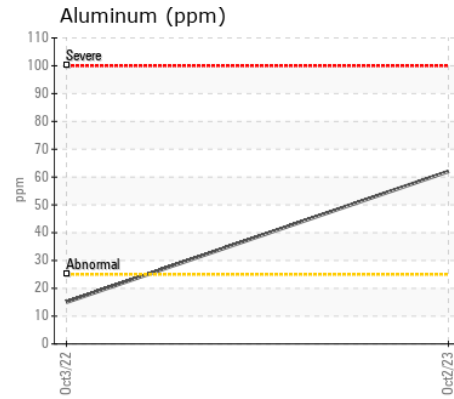
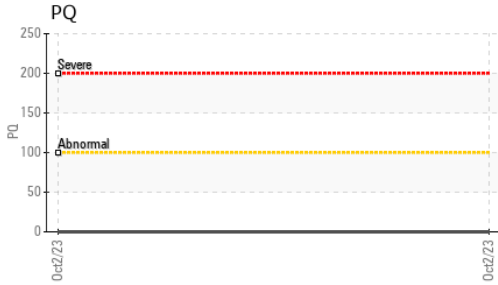
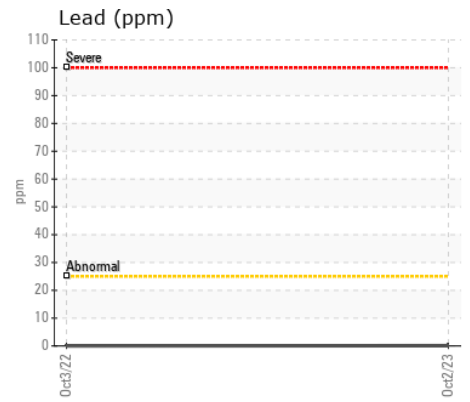
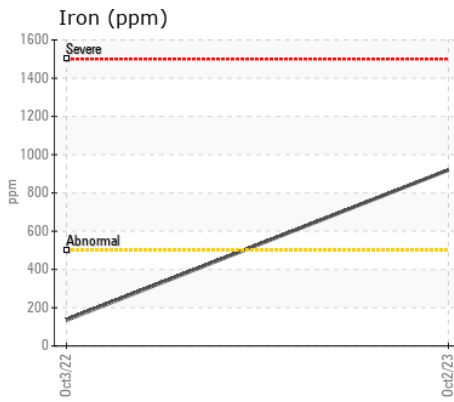
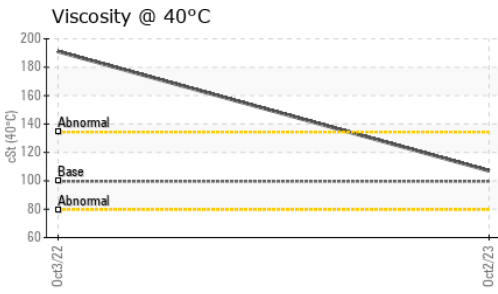
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	161	22	---
Potassium	ppm	ASTM D5185(m)	>20	2	3	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
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	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		5	3	---
Boron	ppm	ASTM D5185(m)	328	170	4	---
Barium	ppm	ASTM D5185(m)	1	3	10	---
Molybdenum	ppm	ASTM D5185(m)		<1	<1	---
Manganese	ppm	ASTM D5185(m)		9	4	---
Magnesium	ppm	ASTM D5185(m)	1	10	6	---
Calcium	ppm	ASTM D5185(m)	7	24	16	---
Phosphorus	ppm	ASTM D5185(m)	1145	1269	1570	---
Zinc	ppm	ASTM D5185(m)	3	37	20	---
Sulfur	ppm	ASTM D5185(m)	17909	20244	26339	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	107	191	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **E. CUMMINGS CONTRACTING INC.**
Sample No. : LH0182163 **Received** : 04 Jan 2024 852 MAIN STREET
Lab Number : 02606597 **Diagnosed** : 05 Jan 2024 WOODSTOCK, NB
Unique Number : 5707683 **Diagnostician** : Kevin Marson CA E7M 2G1
Test Package : MOBCE (Additional Tests: PQ, Visual) Contact: Service Manager

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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 F: