



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R934C 037803-027
Component
Left Final Drive
Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (10 LTR)

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		LH	LH0234405	LH
Sample Date		Client Info		28 Apr 2023	21 Jul 2022	01 Sep 2021
Machine Age	hrs	Client Info		0	18513	16200
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1700	484	707	1427
Chromium	ppm	ASTM D5185(m)	>30	15	17	25
Nickel	ppm	ASTM D5185(m)	>8	2	2	4
Titanium	ppm	ASTM D5185(m)	>10	2	4	5
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>100	36	64	86
Lead	ppm	ASTM D5185(m)	>10	1	3	6
Copper	ppm	ASTM D5185(m)	>100	16	30	87
Tin	ppm	ASTM D5185(m)	>8	<1	<1	3
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	VLITE

CONTAMINATION

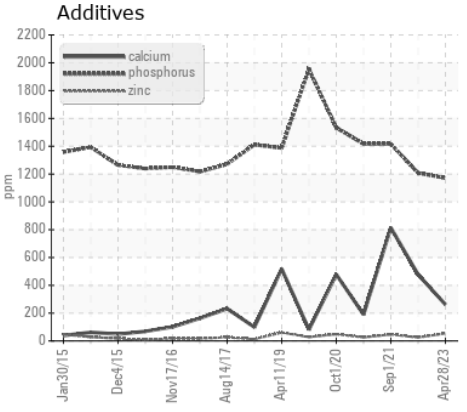
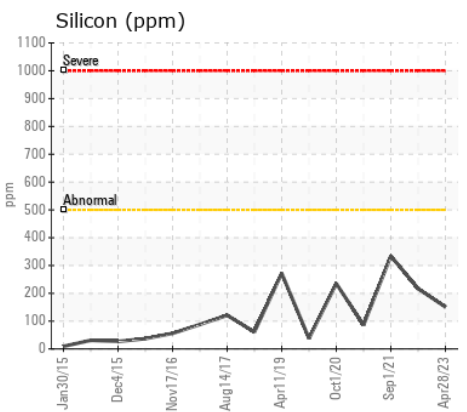
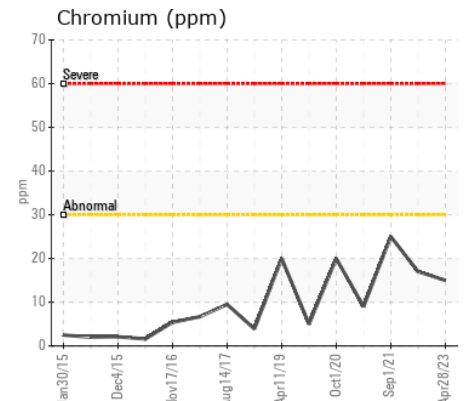
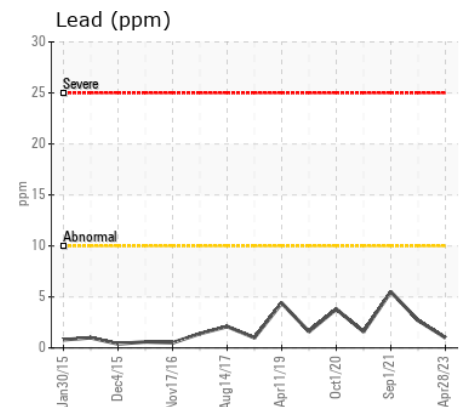
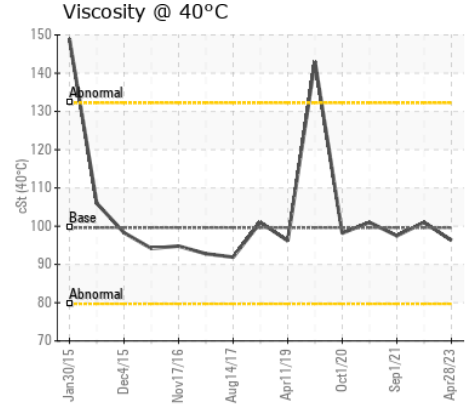
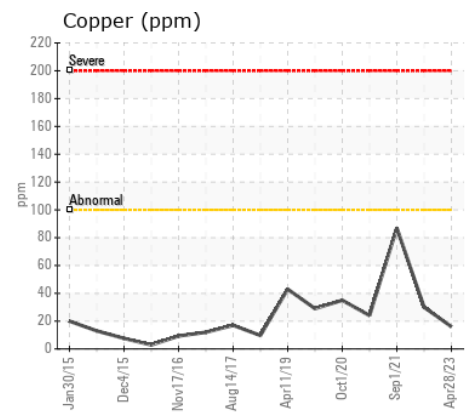
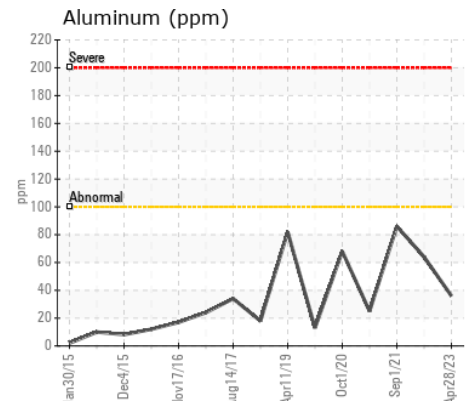
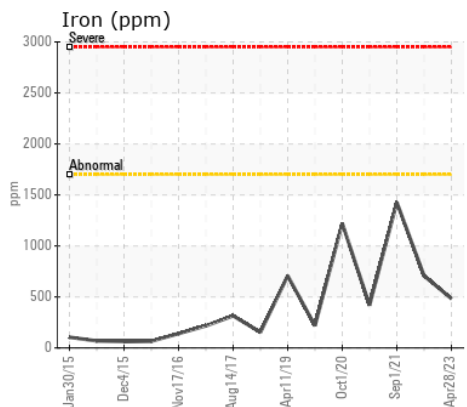
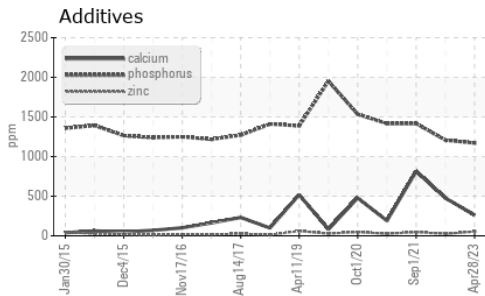
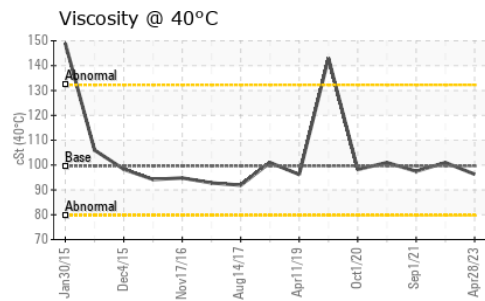
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>500	151	217	334
Potassium	ppm	ASTM D5185(m)	>20	12	16	24
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	LIGHT	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

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		12	15	24
Boron	ppm	ASTM D5185(m)	328	215	191	252
Barium	ppm	ASTM D5185(m)	1	<1	<1	2
Molybdenum	ppm	ASTM D5185(m)		<1	2	2
Manganese	ppm	ASTM D5185(m)		5	10	15
Magnesium	ppm	ASTM D5185(m)	1	118	212	457
Calcium	ppm	ASTM D5185(m)	7	262	477	814
Phosphorus	ppm	ASTM D5185(m)	1145	1171	1208	1416
Zinc	ppm	ASTM D5185(m)	3	54	25	47
Sulfur	ppm	ASTM D5185(m)	17909	19382	20614	22629
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	96.3	101	97.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 19 Apr 2024
Lab Number : 02630305 **Tested** : 19 Apr 2024
Unique Number : 5763437 **Diagnosed** : 19 Apr 2024 - Wes Davis
Test Package : MOB 1

Urban Mine
 72 Rothwell Rd.
 Winnipeg, MB
 CA R3P 2H7
 Contact: SERVICE

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: