



LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
120280-1216

Component
Swing Drive

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

RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0288347	LH0276851	LH0186037
Sample Date		Client Info		18 May 2024	03 Nov 2023	05 May 2022
Machine Age	hrs	Client Info		9098	8000	5066
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

Antimony ppm levels are abnormal.

Iron	ppm	ASTM D5185(m)	>1200	74	28	17
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	▲ 9	<1
Lead	ppm	ASTM D5185(m)	>8	0	<1	<1
Copper	ppm	ASTM D5185(m)	>325	18	14	6
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

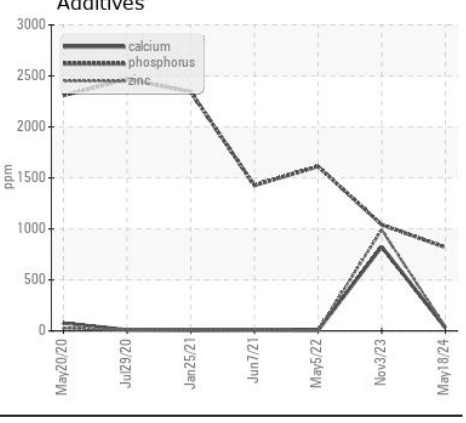
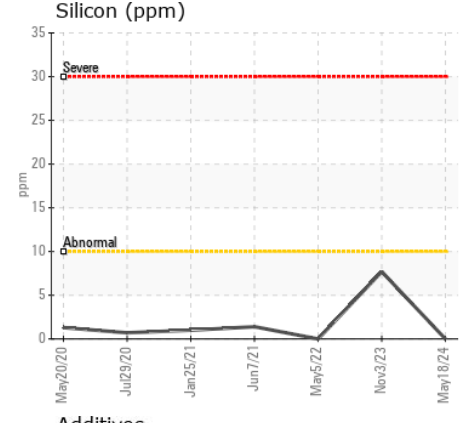
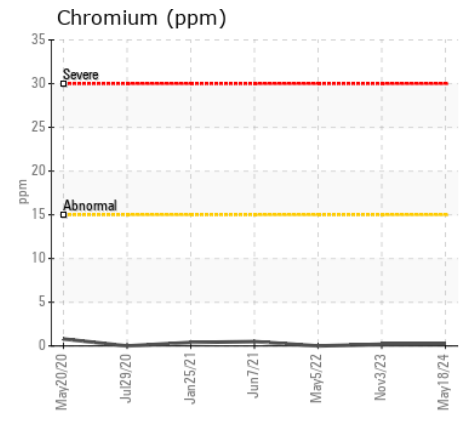
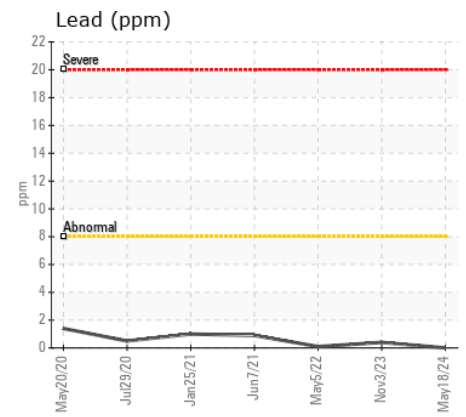
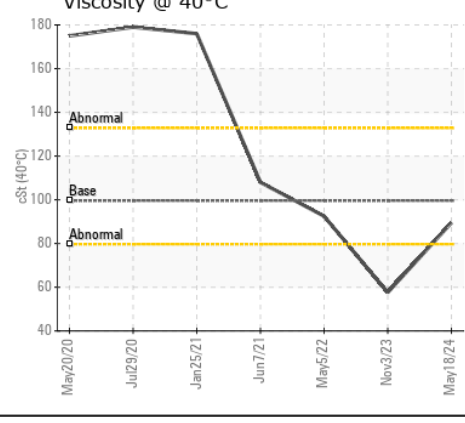
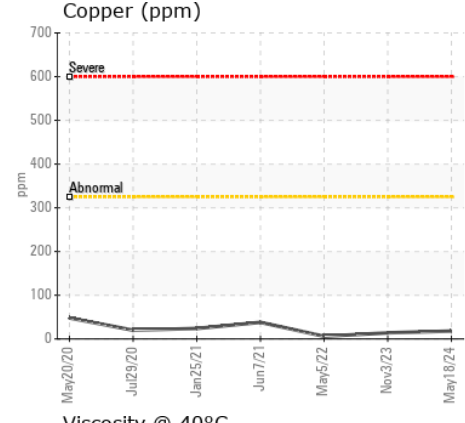
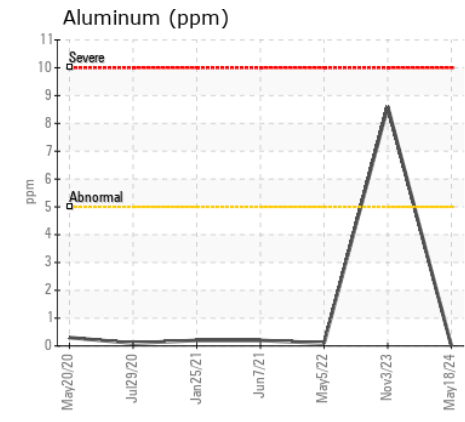
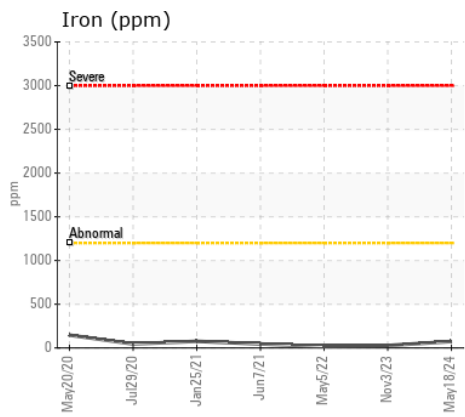
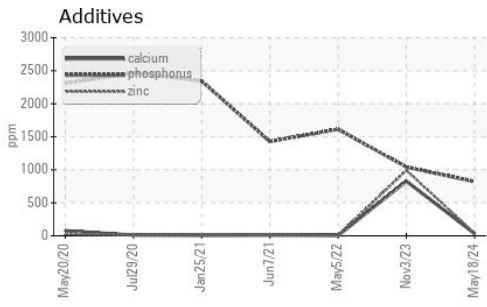
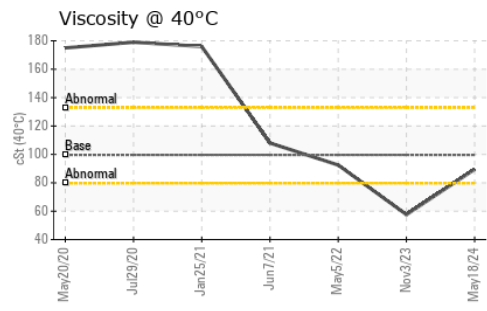
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>10	0	8	0
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<1	4	0
Boron	ppm	ASTM D5185(m)	328	56	● 43	223
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	● 44	0
Manganese	ppm	ASTM D5185(m)		<1	3	0
Magnesium	ppm	ASTM D5185(m)	1	29	● 707	0
Calcium	ppm	ASTM D5185(m)	7	32	● 826	6
Phosphorus	ppm	ASTM D5185(m)	1145	820	1041	1613
Zinc	ppm	ASTM D5185(m)	3	40	● 991	6
Sulfur	ppm	ASTM D5185(m)	17909	19558	● 5587	21814
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	89.5	▲ 57.6	92.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288347
Lab Number : 02638619
Unique Number : 5787781
Test Package : MOB 1
Received : 29 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Kevin Marson

American Iron and Metal
 1273 Kelly Lake Rd.
 Sudbury, ON
 CA P3E 5P5
 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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