



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
045705-1491
Component
Left Final Drive

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

RECOMMENDATION

We recommend an early resample to monitor this condition. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0281285	LH0265682	LH0186922
Sample Date		Client Info		05 May 2024	01 May 2023	02 Dec 2022
Machine Age	hrs	Client Info		5888	4919	3974
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)	>500	243	52	193
Chromium	ppm	ASTM D5185(m)	>10	2	<1	3
Nickel	ppm	ASTM D5185(m)	>10	3	<1	3
Titanium	ppm	ASTM D5185(m)		2	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	32	2	6
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>50	2	1	1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

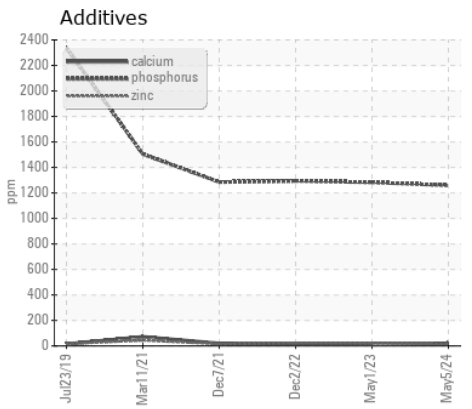
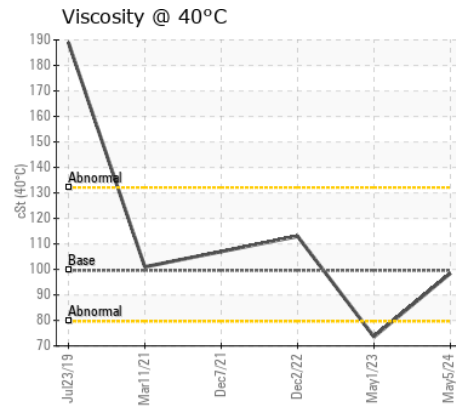
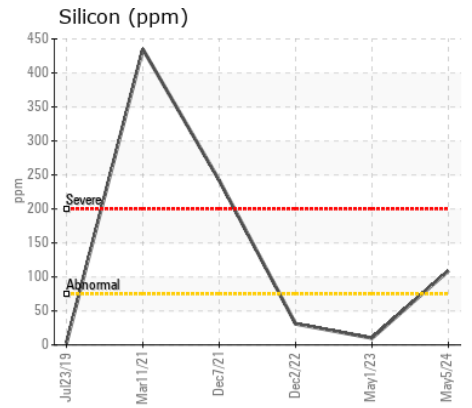
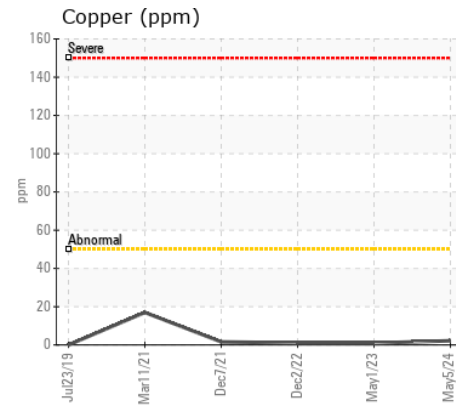
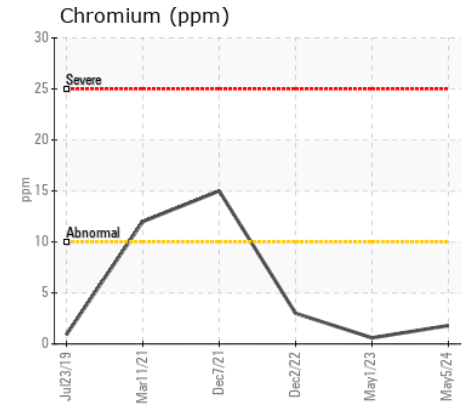
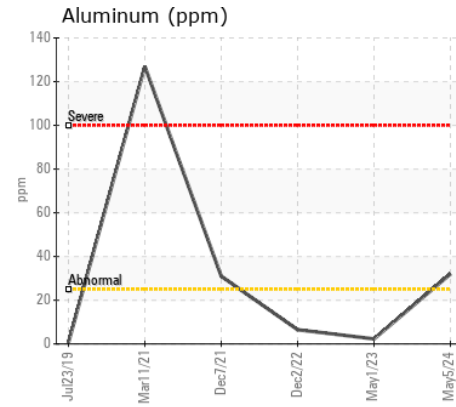
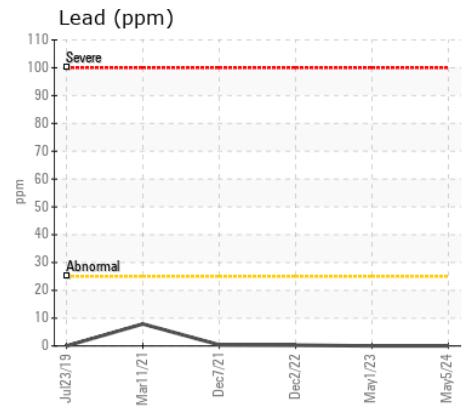
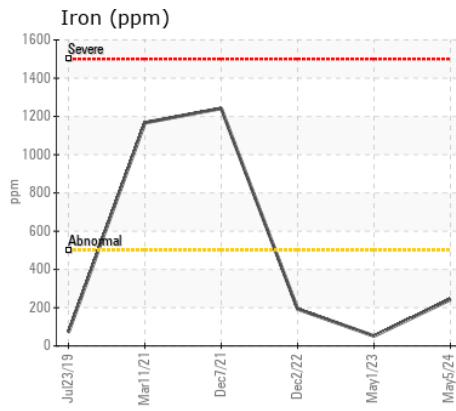
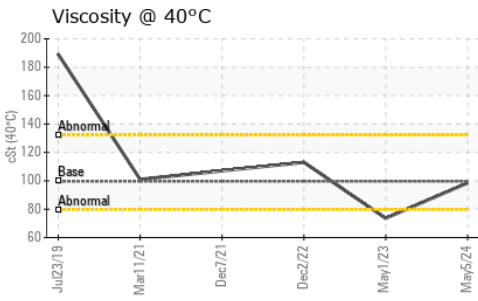
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	109	10	31
Potassium	ppm	ASTM D5185(m)	>20	11	1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	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*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		15	9	69
Boron	ppm	ASTM D5185(m)	328	291	282	270
Barium	ppm	ASTM D5185(m)	1	23	102	1758
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		2	<1	1
Magnesium	ppm	ASTM D5185(m)	1	11	3	4
Calcium	ppm	ASTM D5185(m)	7	21	16	18
Phosphorus	ppm	ASTM D5185(m)	1145	1259	1283	1294
Zinc	ppm	ASTM D5185(m)	3	15	21	24
Sulfur	ppm	ASTM D5185(m)	17909	21054	19975	21085
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	98.5	73.6	113



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281285 **Received** : 13 May 2024
Lab Number : 02635024 **Tested** : 13 May 2024
Unique Number : 5776177 **Diagnosed** : 13 May 2024 - Kevin Marson
Test Package : MOB 1

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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