



LIEBHERR

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

MARGINAL
NORMAL
NORMAL



Machine Id
045705-1491
Component
Right Final 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		LH0281286	LH0265683	LH0213924
Sample Date		Client Info		05 May 2024	01 May 2023	02 Dec 2022
Machine Age	hrs	Client Info		5888	4919	3979
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				MARGINAL	NORMAL	NORMAL

WEAR

Nickel and titanium ppm levels are marginal. All other component wear rates are normal.

PQ		ASTM D8184*		80	---	---
Iron	ppm	ASTM D5185(m)	>500	697	36	102
Chromium	ppm	ASTM D5185(m)	>10	6	<1	1
Nickel	ppm	ASTM D5185(m)	>10	▲ 10	<1	1
Titanium	ppm	ASTM D5185(m)		▲ 5	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	71	2	6
Lead	ppm	ASTM D5185(m)	>25	2	0	<1
Copper	ppm	ASTM D5185(m)	>50	5	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		<1	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.

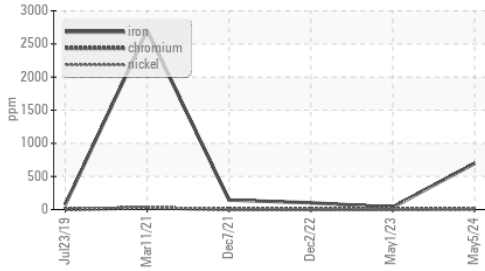
Silicon	ppm	ASTM D5185(m)	>75	234	10	28
Potassium	ppm	ASTM D5185(m)	>20	18	<1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

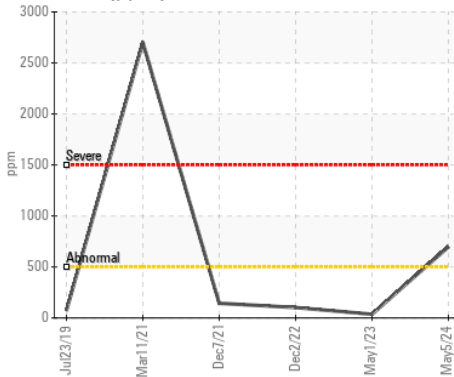
Additive levels indicate the addition of a different brand, or type of oil.

Sodium	ppm	ASTM D5185(m)		21	6	14
Boron	ppm	ASTM D5185(m)	328	288	317	261
Barium	ppm	ASTM D5185(m)	1	3	8	7
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		6	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	24	3	4
Calcium	ppm	ASTM D5185(m)	7	84	56	107
Phosphorus	ppm	ASTM D5185(m)	1145	1243	1319	1364
Zinc	ppm	ASTM D5185(m)	3	28	21	51
Sulfur	ppm	ASTM D5185(m)	17909	20874	20572	22286
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	98.5	99.1	98.1

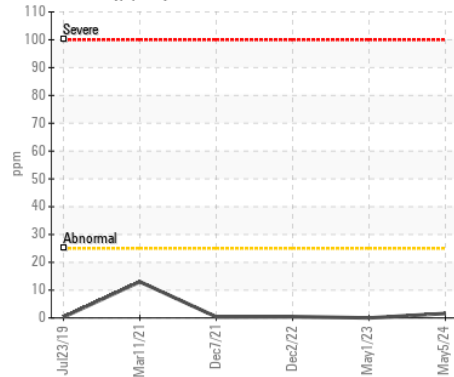
▲ Ferrous Alloys



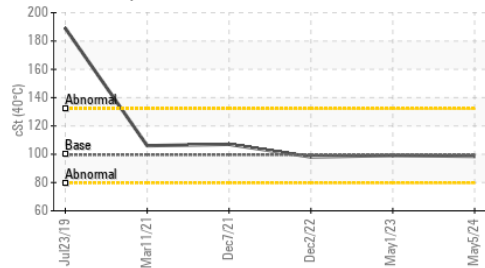
Iron (ppm)



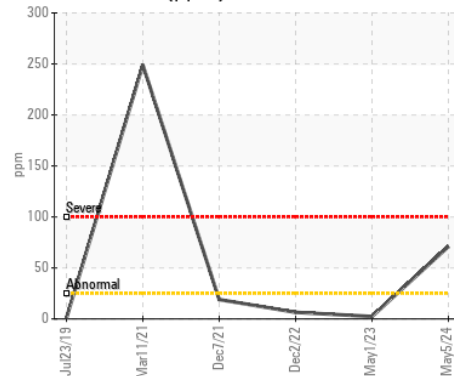
Lead (ppm)



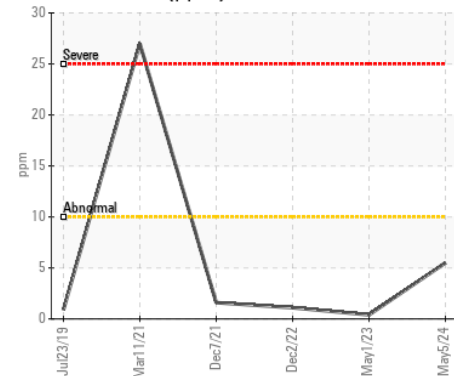
Viscosity @ 40°C



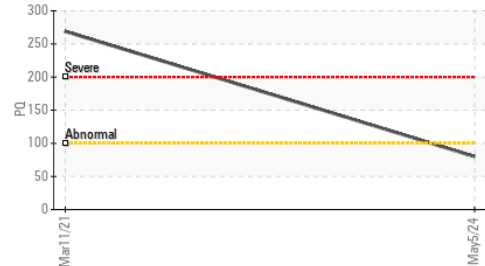
Aluminum (ppm)



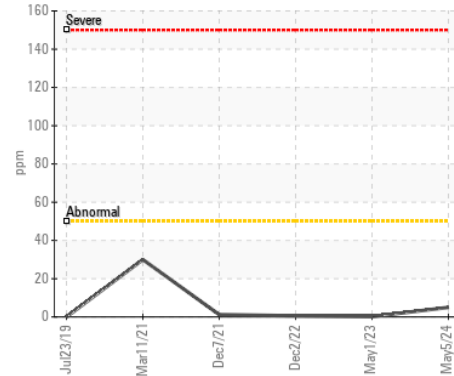
Chromium (ppm)



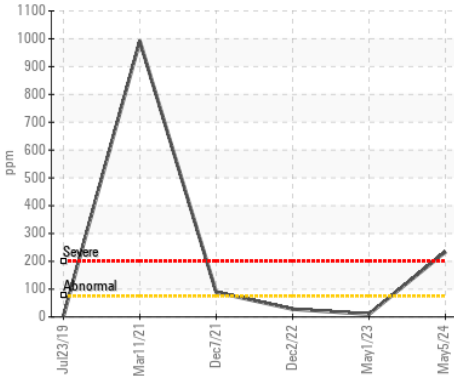
PQ



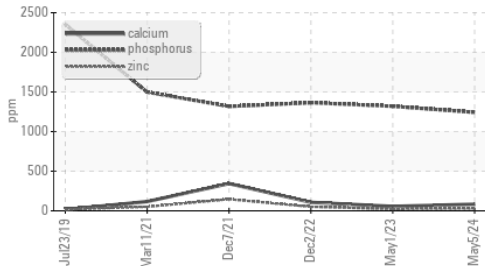
Copper (ppm)



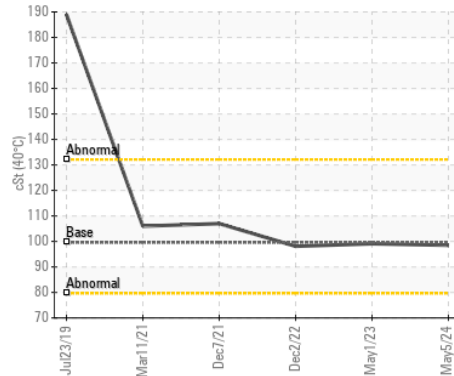
Silicon (ppm)



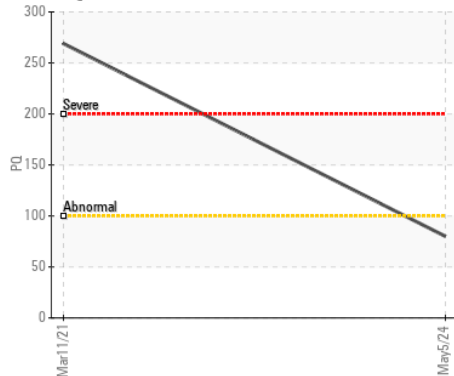
Additives



Viscosity @ 40°C



PQ



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281286 **Received** : 13 May 2024
Lab Number : 02635025 **Tested** : 14 May 2024
Unique Number : 5776178 **Diagnosed** : 14 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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.

T:
F: