

Current

LH0284895

13 Feb 2024

Changed

ABNORMAL

309

3960

0

0

N/A

History1

26 Jul 2023

Changed

ABNORMAL

185

3133

0

0

N/A

History2

24 Nov 2022

Changed

NORMAL

2095

0

0

N/A

LH0195719 LH0242485



LIEBHERR R938 053191-1650

Left Final Drive

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

Test

Sample Number

Sample Date

Machine Age

Oil Age

PQ

Filter Age

Oil Changed

Filter Changed

Sample Status

UOM

hrs

hrs

hrs

Method

Client Info

Client Info

Client Info

Client Info

Client Info

Client Info

Client Info

ASTM D8184*

Limit/Abn

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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.

WEAR

Aluminum ppm levels are noted. Titanium ppm levels are marginal. All other component wear rates are normal.

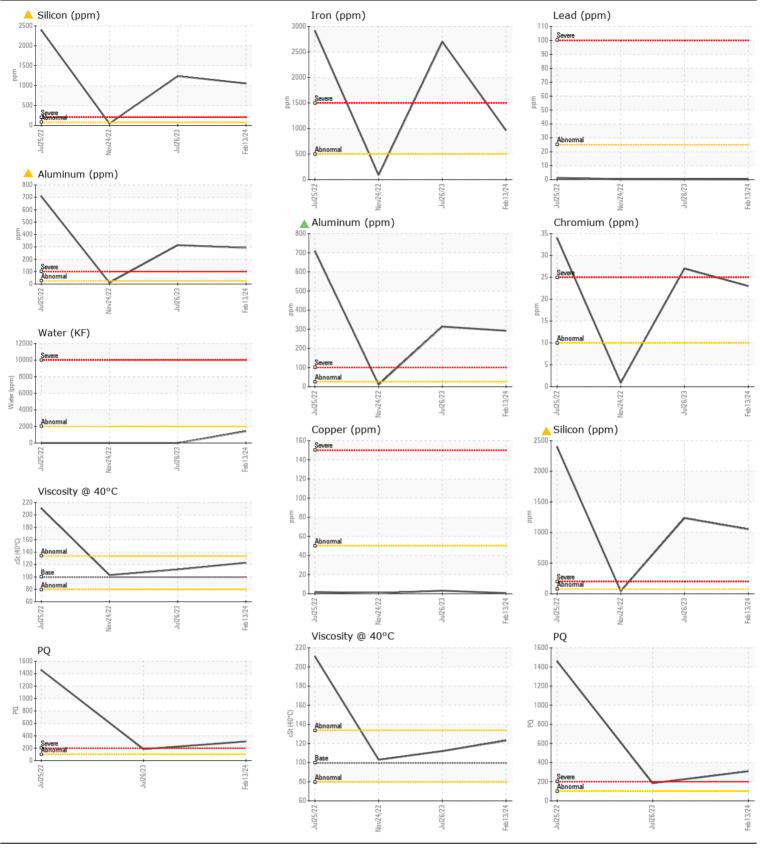
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. The water content is negligible.

Iron	ppm	ASTM D5185(m)	>500	964	2 702	87
Chromium	ppm	ASTM D5185(m)	>10	23	2 7	<1
Nickel	ppm	ASTM D5185(m)	>10	2	4	<1
Titanium	ppm	ASTM D5185(m)		🔺 18	1 21	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	292	A 314	11
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<1	3	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	1	<1
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	1053	1 236	44
Potassium	ppm	ASTM D5185(m)	>20	99	100	7
Water	%	ASTM D6304*	>0.2	0.142		
ppm Water	ppm	ASTM D6304*	>2000	1425		
Silt	scalar	Visual*	NONE	LIGHT	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	.5%	NEG	NEG
Sodium	ppm	ASTM D5185(m)		79	104	39
Boron	ppm	ASTM D5185(m)	328	97	171	225
Barium	ppm	ASTM D5185(m)	1	3	84	359
Molybdenum	ppm	ASTM D5185(m)		2	2	0
Manganese	ppm	ASTM D5185(m)		11	21	<1
Magnesium	ppm	ASTM D5185(m)	1	91	83	6
Calcium	ppm	ASTM D5185(m)	7	236	282	35
Phosphorus	ppm	ASTM D5185(m)	1145	1833	2188	1275
Zinc	ppm	ASTM D5185(m)	3	33	34	22
Sulfur	ppm	ASTM D5185(m)	17909	22721	26807	20879
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	123	112	103
Submitted By: ?						

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.



THOMAS CAVANAGH CONSTRUCTION LTD Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA 回祝 Sample No. Received : 23 Feb 2024 RR # 2, 9094 CAVANAGH ROAD : LH0284895 Lab Number : 02617711 : 27 Feb 2024 ASHTON, ON Tested ISO 17025:2017 Accredited : 27 Feb 2024 - Kevin Marson CA K0A 1B0 Unique Number : 5734821 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: KF, PQ) Contact: Keith 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. T: (613)257-4995 F: (613)253-0071 Validity of results and interpretation are based on the sample and information as supplied.