



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR HS895 188297

Component
Winch

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0295146	LH0260280	LH0195195
Sample Date		Client Info		18 Jun 2024	02 May 2023	18 Mar 2021
Machine Age	hrs	Client Info		16385	13473	6156
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	8	▲ 238	14
Chromium	ppm	ASTM D5185(m)	>10	0	2	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>5	<1	1	<1
Lead	ppm	ASTM D5185(m)	>15	0	0	<1
Copper	ppm	ASTM D5185(m)	>80	<1	<1	2
Tin	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

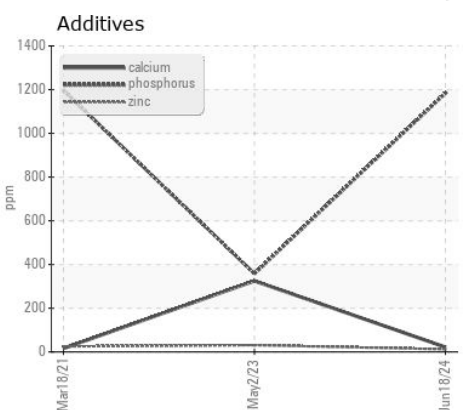
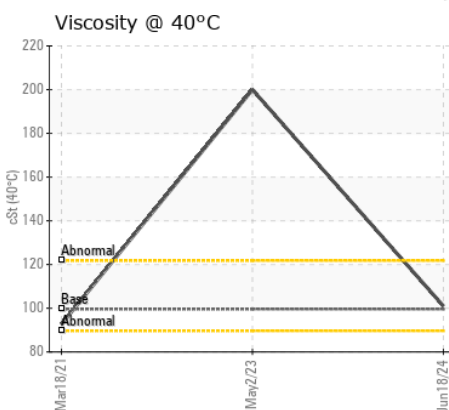
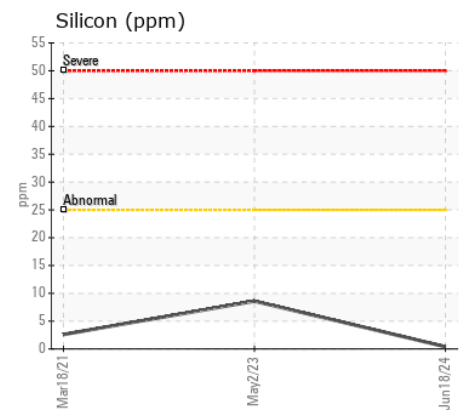
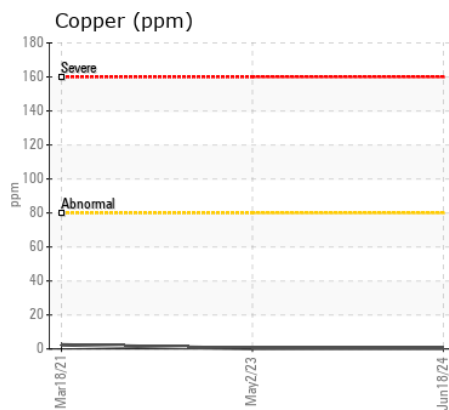
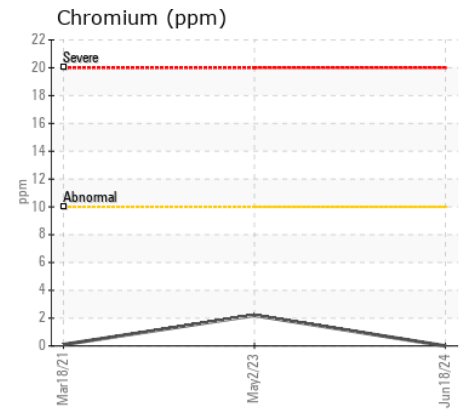
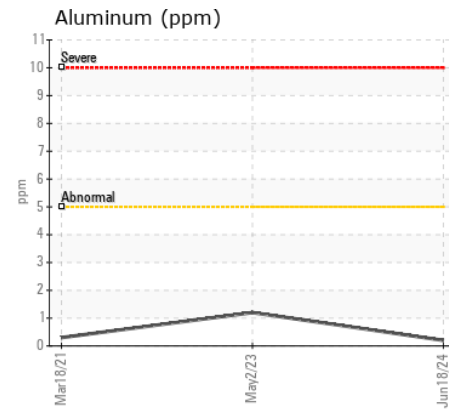
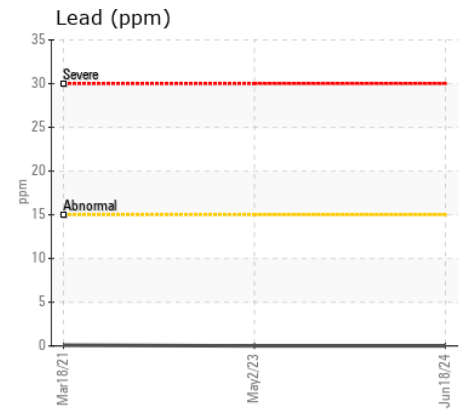
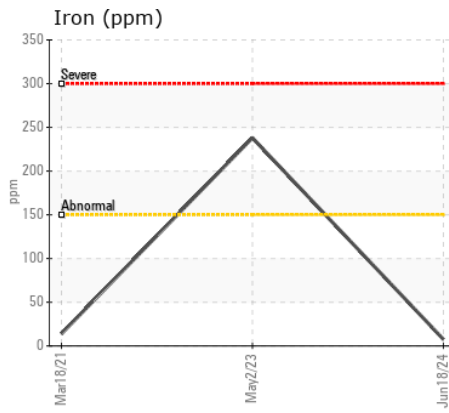
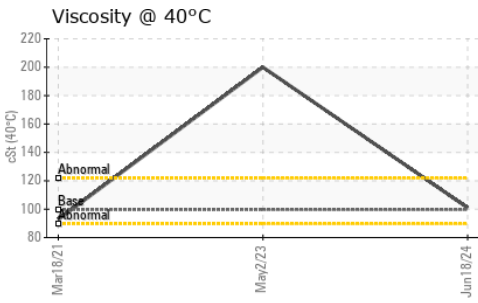
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<1	9	3
Potassium	ppm	ASTM D5185(m)	>20	<1	7	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	4	<1
Boron	ppm	ASTM D5185(m)	328	296	8	298
Barium	ppm	ASTM D5185(m)	1	0	1	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		0	2	<1
Magnesium	ppm	ASTM D5185(m)	1	3	4	9
Calcium	ppm	ASTM D5185(m)	7	22	325	16
Phosphorus	ppm	ASTM D5185(m)	1145	1184	358	1197
Zinc	ppm	ASTM D5185(m)	3	12	31	25
Sulfur	ppm	ASTM D5185(m)	17909	20250	11535	21213
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	101	200	92.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0295146 **Received** : 26 Jun 2024
Lab Number : 02644230 **Tested** : 26 Jun 2024
Unique Number : 5801769 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : MOB 1

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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: