



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR HS895HD 188227

Component
Boom Winch

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

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

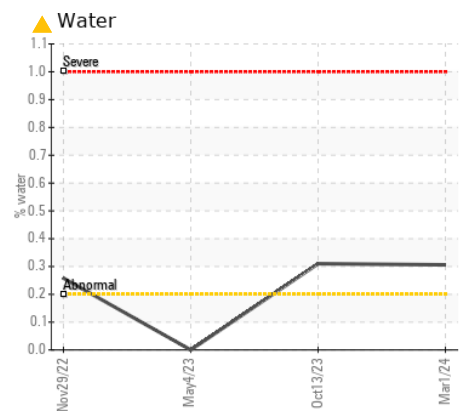
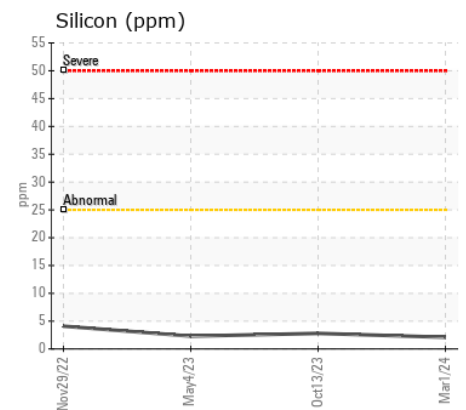
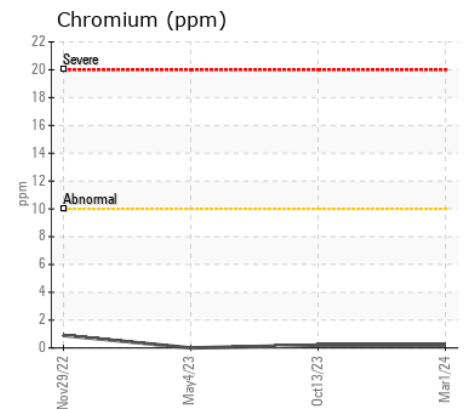
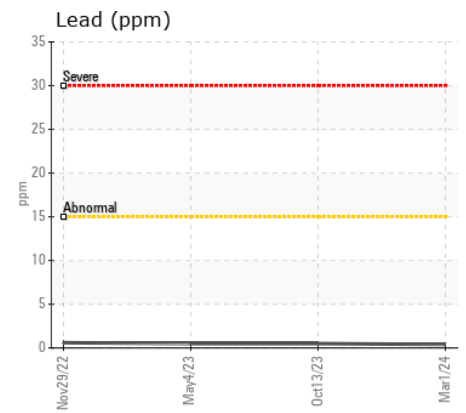
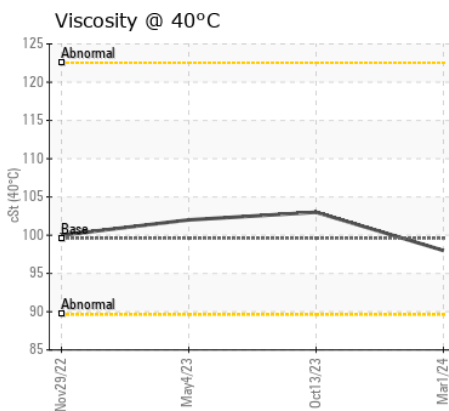
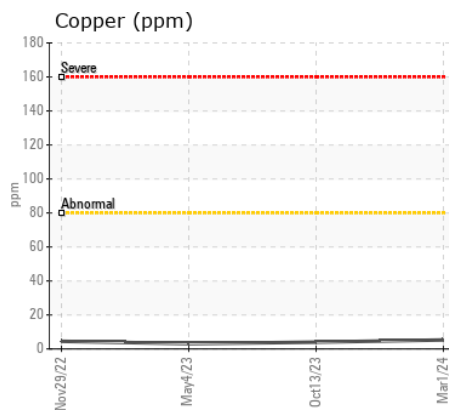
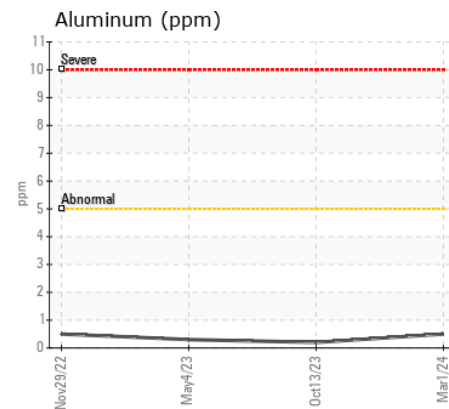
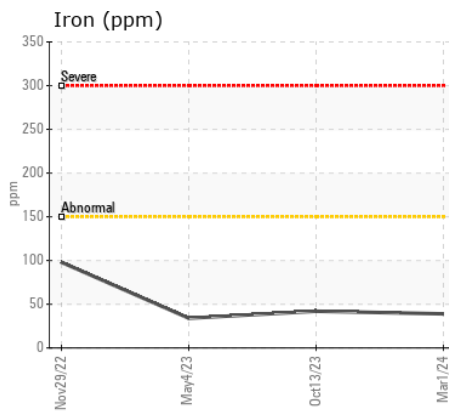
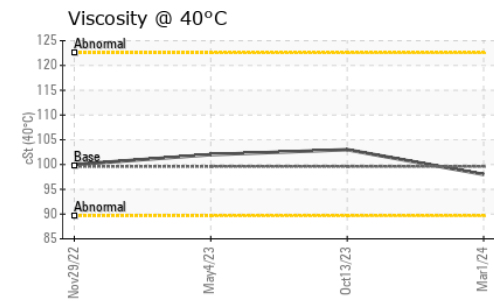
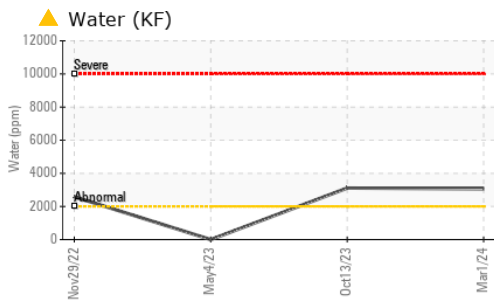
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286568	LH0274765	LH0261279
Sample Date		Client Info		01 Mar 2024	13 Oct 2023	04 May 2023
Machine Age	hrs	Client Info		26121	25204	24070
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				ABNORMAL	ABNORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>150	39	42	34
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>15	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>80	5	4	3
Tin	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>25	2	3	2
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
Water	%	ASTM D6304*	>0.2	▲ 0.306	▲ 0.310	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 3062	▲ 3109.4	---
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ HAZY	▲ HAZY	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		1	2	1
Boron	ppm	ASTM D5185(m)	328	117	198	257
Barium	ppm	ASTM D5185(m)	1	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	1	3	3	3
Calcium	ppm	ASTM D5185(m)	7	10	9	7
Phosphorus	ppm	ASTM D5185(m)	1145	995	1178	1333
Zinc	ppm	ASTM D5185(m)	3	40	53	47
Sulfur	ppm	ASTM D5185(m)	17909	20851	20481	21285
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	98.0	103	102



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286568 **Received** : 05 Mar 2024
Lab Number : 02619987 **Tested** : 07 Mar 2024
Unique Number : 5737097 **Diagnosed** : 07 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KF)

HIGGS & HIGGS
 RR # 4
 ST THOMAS, ON
 CA N5P 3S8
 Contact: Bernie Higgs

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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