

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895 188244 - Boom Winch

Sample No: LH0289540

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0289540	LH0276119	LH0266041	LH0082039
Sample Date	10 May 2024	05 Sep 2023	06 Jun 2023	15 Jun 2014
Machine Hours	21278	19868	15269	3740
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	93.9	108	92.7	98.2
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T: (519)631-4095

F: (519)631-2745



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	0	1	3	2
Sodium	ppm	14	1	1	<1
Potassium	ppm	24	<1	2	3

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	14	19	134	6
Copper	ppm	1	<1	3	<1
Lead	ppm	0	1	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	2	1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	<1	2	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	7	11	13	25
Magnesium	ppm	2	1	2	<1
Zinc	ppm	12	33	121	42
Phosphorus	ppm	760	1317	1269	1223
Barium	ppm	0	0	<1	<1
Boron	ppm	47	283	117	319

Depot: HIGSTT

Unique No: 5801742

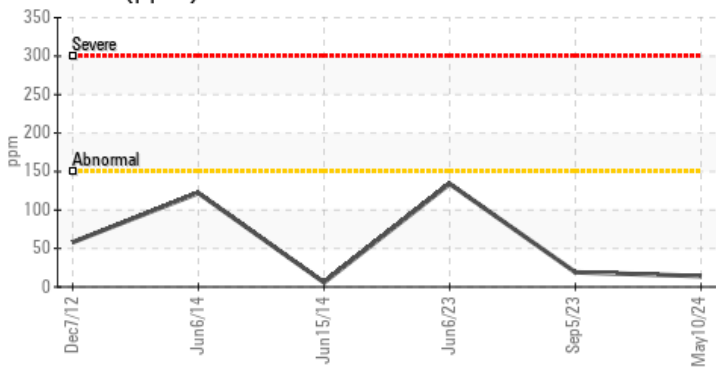
Signed: Wes Davis

Report Date: 26 Jun 2024

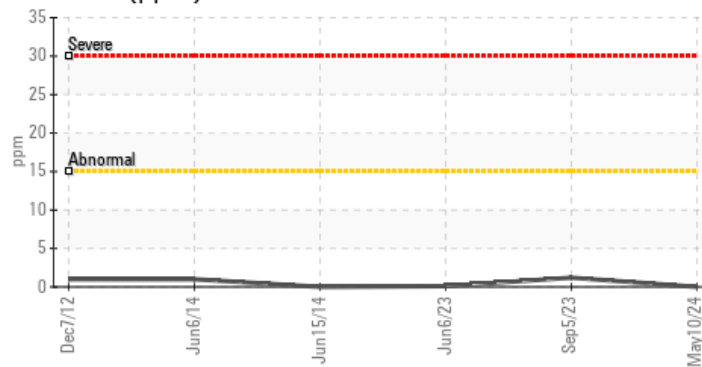


Graphs

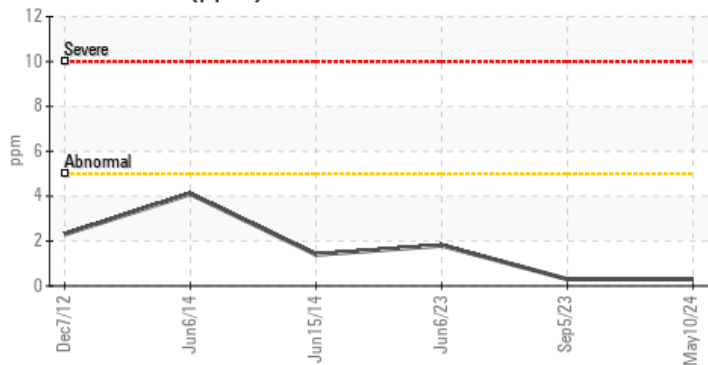
Iron (ppm)



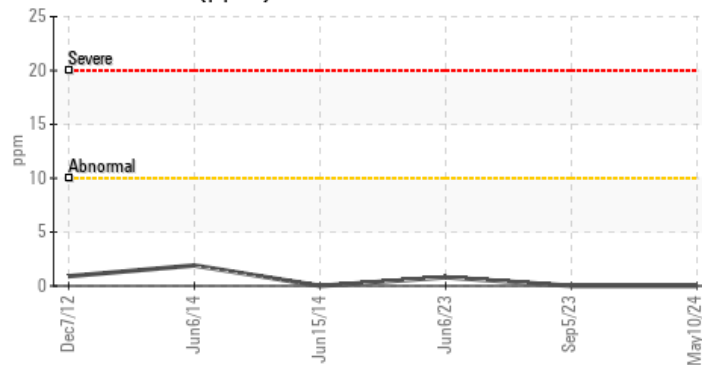
Lead (ppm)



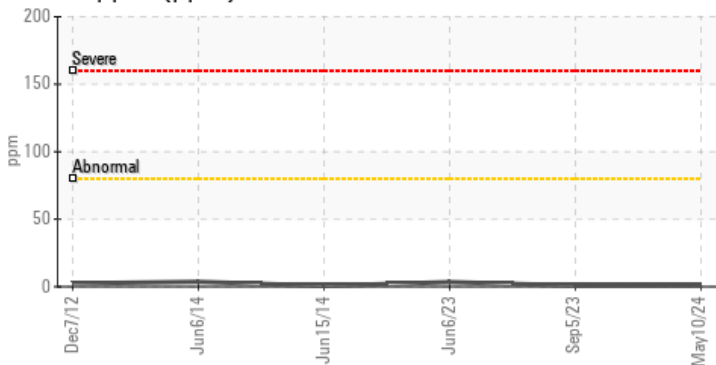
Aluminum (ppm)



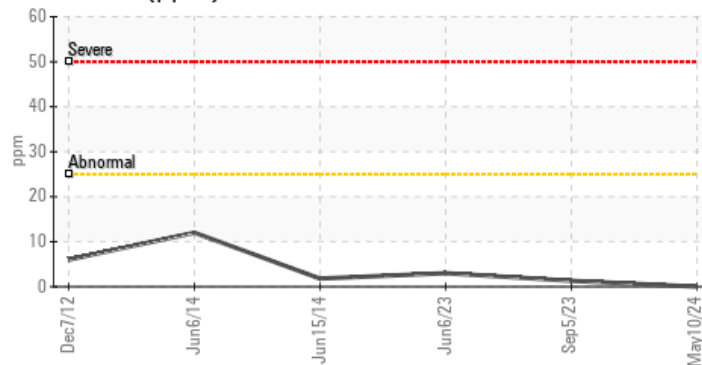
Chromium (ppm)



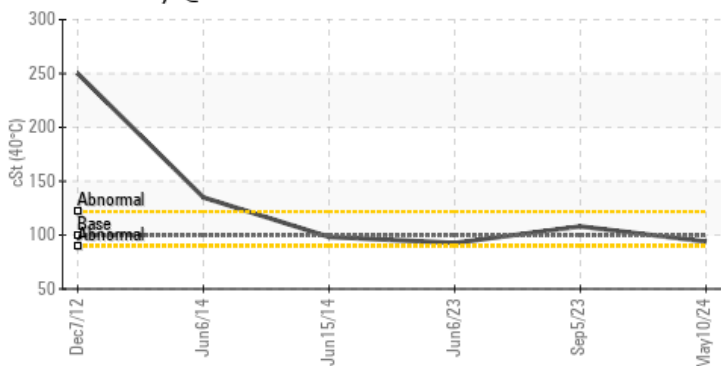
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

