

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904C079128-1004 - Splitter Box

Sample No: LH

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH	LH	LH0235236	LH
Sample Date	13 Nov 2023	20 Mar 2023	20 Sep 2022	15 Nov 2021
Machine Hours	17558	16723	15986	0
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

ARMAND DUHAMEL et FILS INC.
 778 RUE DE L' EGLISE
 ST-IGNACE-STANDBRIDGE, QC
 CA J0J 1Y0
 Contact:



OIL CONDITION

Visc @ 40°C	cSt	60.7	92.9	95.7	97.5
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	1	2	1
Sodium	ppm	2	<1	1	0
Potassium	ppm	0	0	0	<1

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. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	7	6	7	4
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	59	0	0	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

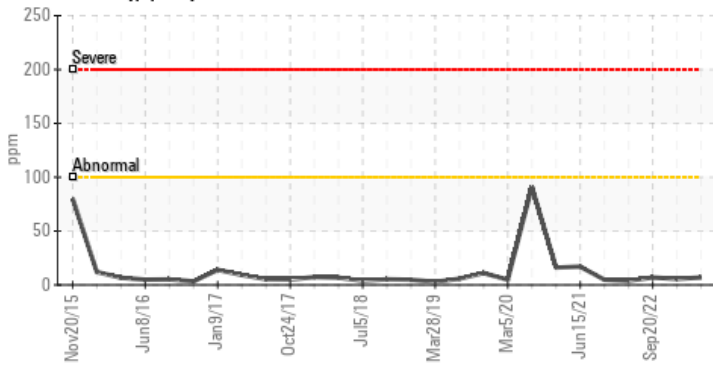
Calcium	ppm	953	8	9	9
Magnesium	ppm	978	2	2	2
Zinc	ppm	1123	19	17	9
Phosphorus	ppm	1174	1436	1438	1353
Barium	ppm	<1	0	0	0
Boron	ppm	37	314	273	330

Depot: ARMSTI
 Unique No: 5682249
 Signed: Kevin Marson
 Report Date: 17 Nov 2023

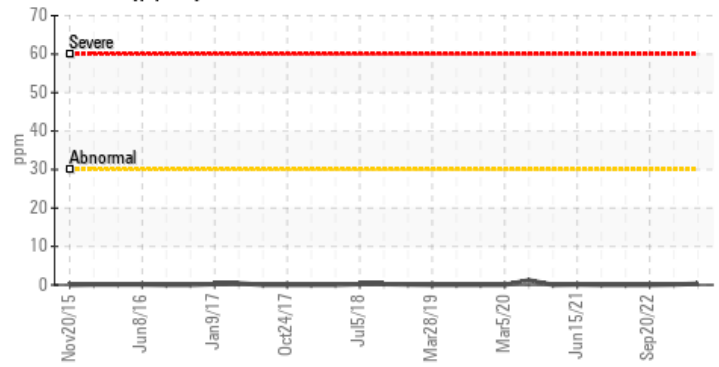


GRAPHS

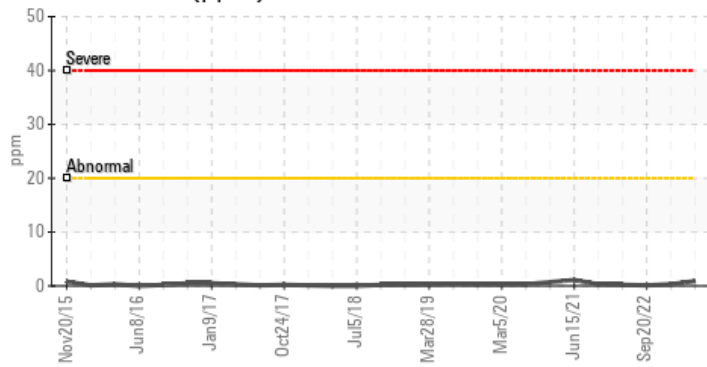
Iron (ppm)



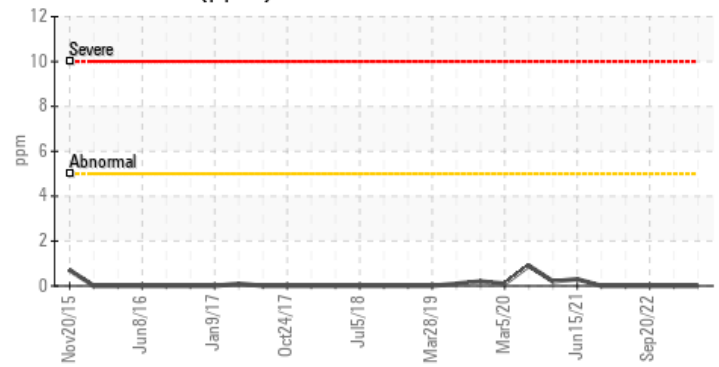
Lead (ppm)



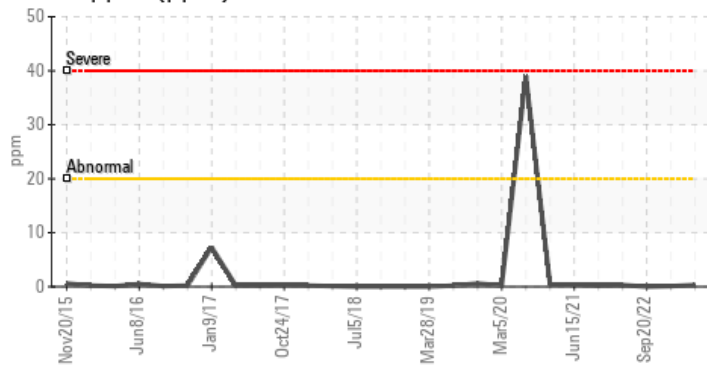
Aluminum (ppm)



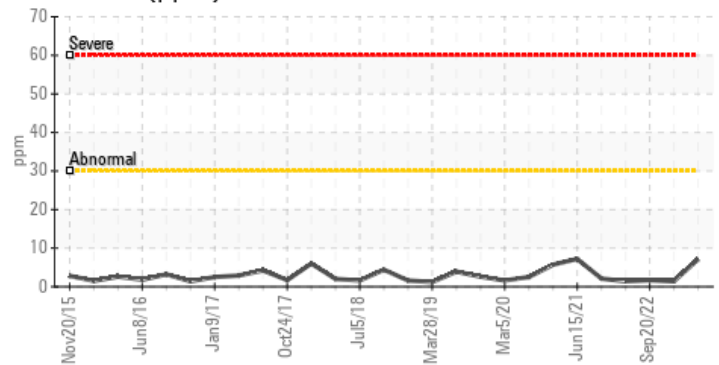
Chromium (ppm)



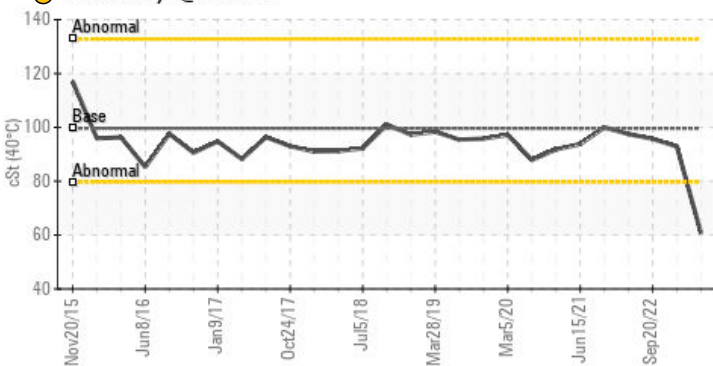
Copper (ppm)



Silicon (ppm)



● Viscosity @ 40°C



● Additives

