LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 139969-1253 - Diesel Engine

Sample No: LH

Oil Type: NOT GIVEN

METAUX 139 INC.
86 RTE MARIE-VICTORIN
PIERREVILLE, QC
CA J0G 1J0
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH**	---	---	---
Sample Date		**19 Oct 2023**	---	---	---
Machine Hours		**480**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**11.5**	---	---	---
Oxidation (PA)	%	**205**	---	---	---

CONTAMINATION

Soot %	%	**0**	---	---	---
Nitration (PA)	%	**98**	---	---	---
Sulfation (PA)	%	**110**	---	---	---
Glycol	%	**0.0**	---	---	---
Fuel	%	**1.2**	---	---	---
Silicon	ppm	**8**	---	---	---
Sodium	ppm	**2**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

Iron	ppm	**11**	---	---	---
Copper	ppm	**213**	---	---	---
Lead	ppm	**6**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**3**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**46**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**<1**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1372**	---	---	---
Magnesium	ppm	**889**	---	---	---
Zinc	ppm	**833**	---	---	---
Phosphorus	ppm	**666**	---	---	---
Barium	ppm	**33**	---	---	---
Boron	ppm	**95**	---	---	---

Diagnosis

We advise that you check for the source of water 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. Please specify the brand, type, and viscosity of the oil on your next sample.Metal levels are typical for a new component breaking in. Light fuel dilution occurring. There is a moderate concentration of water present in the oil. Free water present. Test for glycol is negative. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Depot: MET126WIC
Unique No: 5668775
Signed: Kevin Marson
Report Date: 26 Oct 2023

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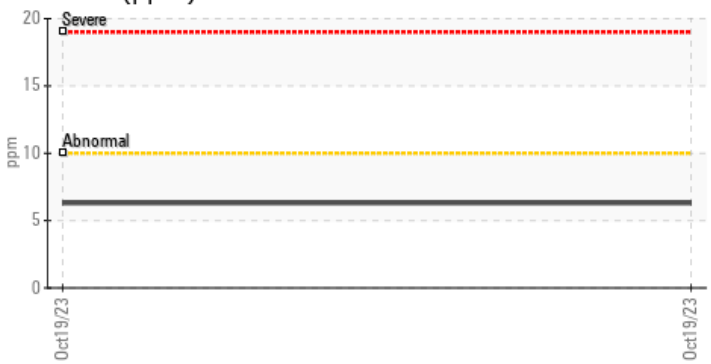
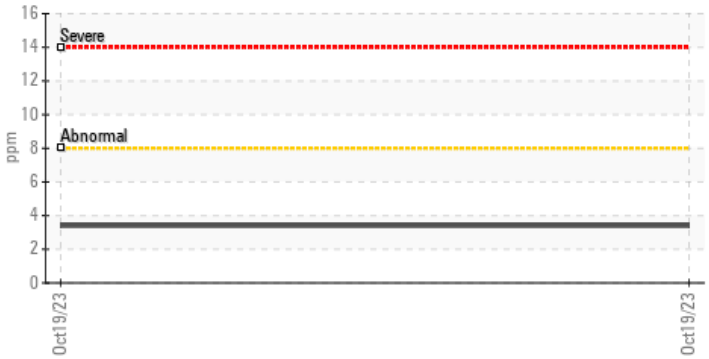
GRAPHS

Iron (ppm)

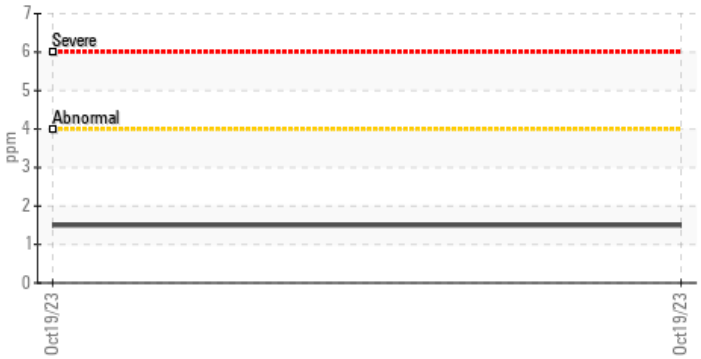
Lead (ppm)



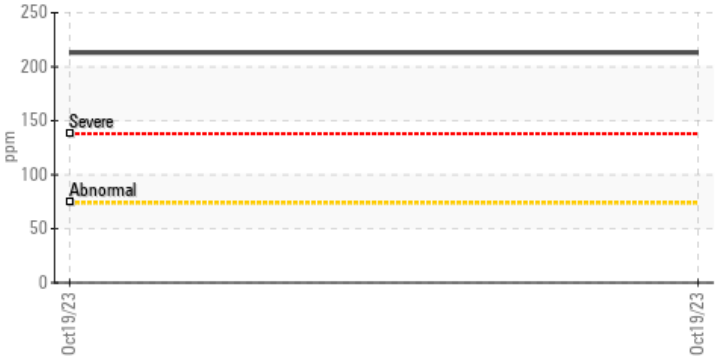
Aluminum (ppm)



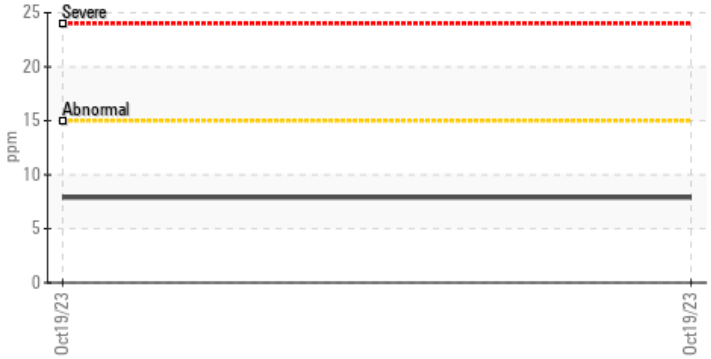
Chromium (ppm)



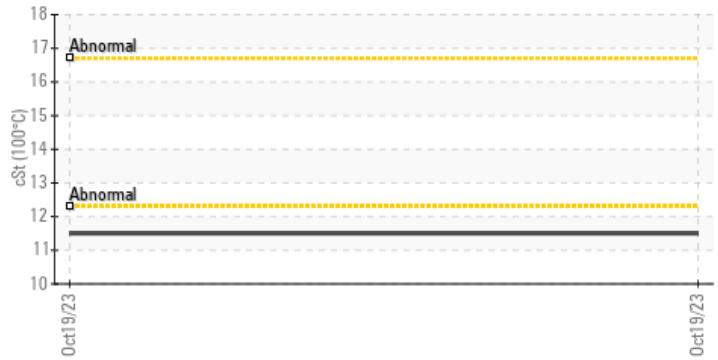
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %