

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Diesel Engine

Sample No: LH0254119

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0254119	LHMC116829	---	---
Sample Date	17 Jun 2023	29 Sep 2022	---	---
Machine Hours	4033	2906	---	---
Oil Hours	775	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	SEVERE	NORMAL	---	---

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 9920 RICHMOND HIGHWAY
 LORTON, VA
 US 22079
 Contact: JAMIE
 jamie.davisindustries@gmail.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	10.2	9.6	---	---
Base Number (BN)	mg KOH/g	1.7	5.2	---	---
Oxidation (PA)	%	144	89	---	---



CONTAMINATION

Soot %	%	0.2	0.1	---	---
Nitration (PA)	%	150	97	---	---
Sulfation (PA)	%	80	71	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	10	---	---
Sodium	ppm	2	<1	---	---
Potassium	ppm	15	15	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low. The oil is no longer serviceable.



WEAR METALS

Iron	ppm	25	17	---	---
Copper	ppm	19	22	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	1	<1	---	---
Aluminum	ppm	5	2	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	45	43	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

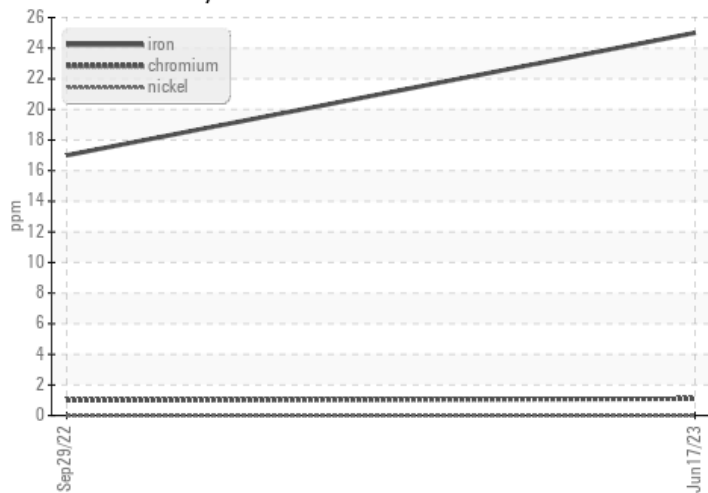
Calcium	ppm	872	871	---	---
Magnesium	ppm	795	705	---	---
Zinc	ppm	805	746	---	---
Phosphorus	ppm	686	613	---	---
Barium	ppm	1	5	---	---
Boron	ppm	56	31	---	---

Depot: DAVLORVA
 Unique No: 10550022
 Signed: Angela Borella
 Report Date: 12 Jul 2023

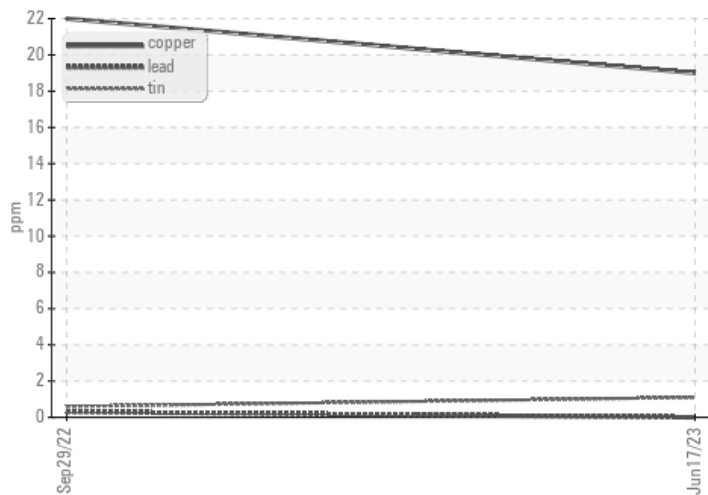


GRAPHS

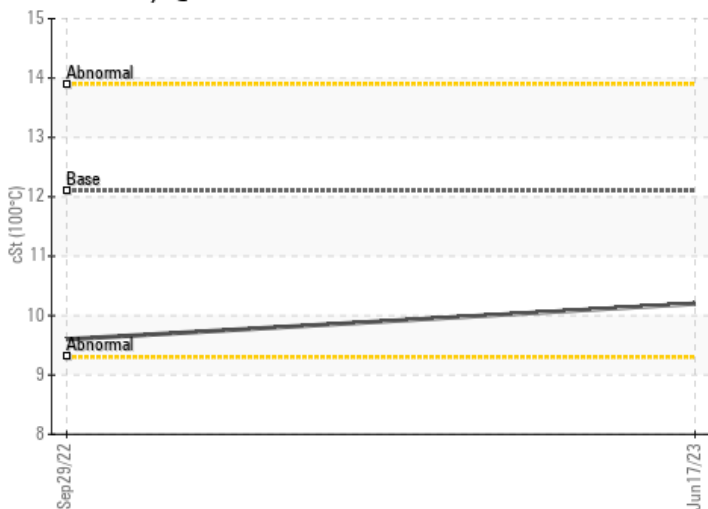
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

