

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Diesel Engine

Sample No: LH0272832

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0272832	LH0254119	LHMC116829	---
Sample Date	20 Dec 2023	17 Jun 2023	29 Sep 2022	---
Machine Hours	4719	4033	2906	---
Oil Hours	686	775	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	SEVERE	NORMAL	---

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 F:



OIL CONDITION

Visc @ 100°C	cSt	12.7	10.2	9.6	---
Base Number (BN)	mg KOH/g	6.4	1.7	5.2	---
Oxidation (PA)	%	90	144	89	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.1	---
Nitration (PA)	%	89	150	97	---
Sulfation (PA)	%	57	80	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	10	---
Sodium	ppm	2	2	<1	---
Potassium	ppm	6	15	15	---

Diagnosis

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 result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	3	25	17	---
Copper	ppm	4	19	22	---
Lead	ppm	1	0	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	2	5	2	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	8	45	43	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

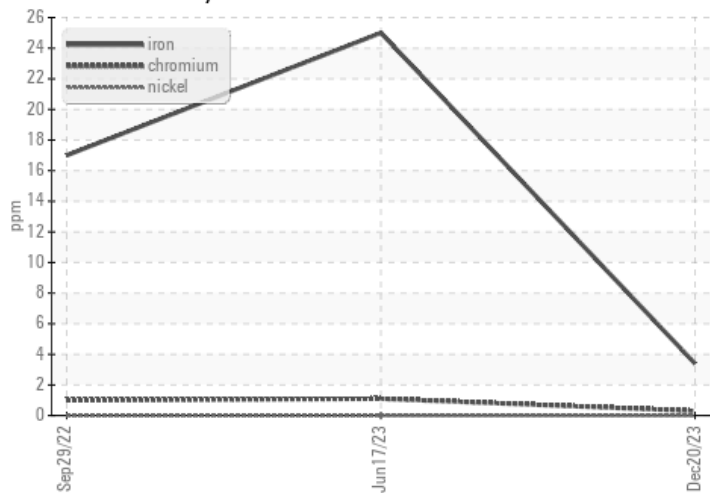
Calcium	ppm	1158	872	871	---
Magnesium	ppm	761	795	705	---
Zinc	ppm	845	805	746	---
Phosphorus	ppm	770	686	613	---
Barium	ppm	0	1	5	---
Boron	ppm	82	56	31	---

Depot: DAVLORVA
Unique No: 10859461
Signed: Don Baldrige
Report Date: 04 Feb 2024

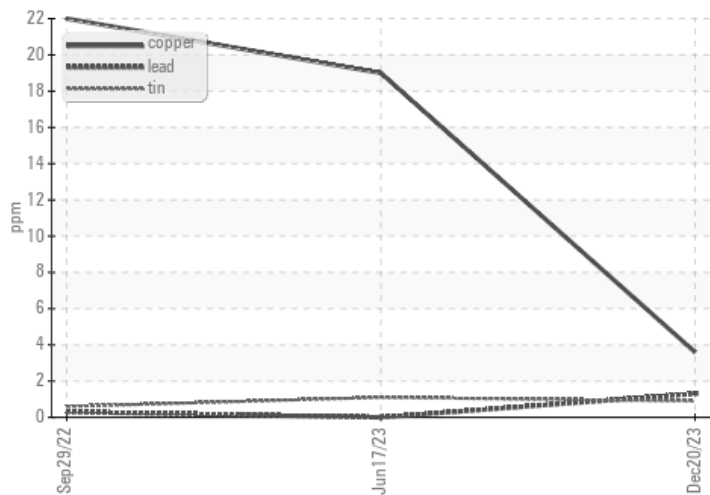


GRAPHS

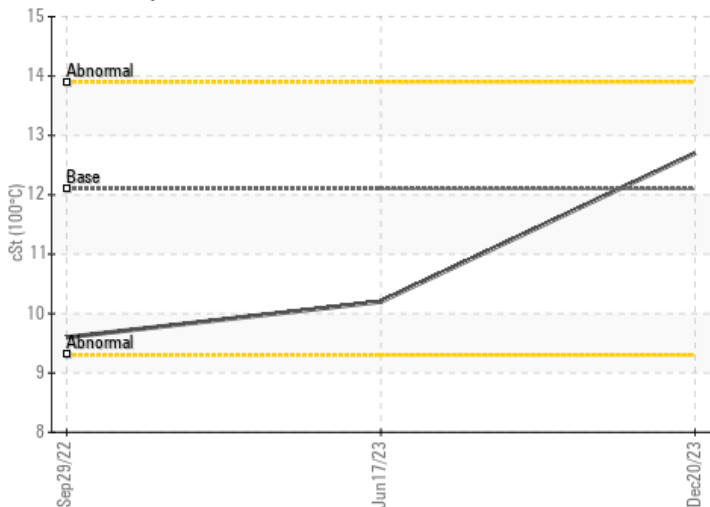
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

