

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C1528-98445 - Diesel Engine

Sample No: LH0267318

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0267318	LH0267360	LH0229847	LH0190957
Sample Date	20 Dec 2023	05 Sep 2023	27 Sep 2022	19 May 2021
Machine Hours	12491	11098	10049	7320
Oil Hours	573	969	1994	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE

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 T:
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OIL CONDITION

Visc @ 100°C	cSt	11.5	11.8	11.4	4.3
Base Number (BN)	mg KOH/g	12.3	5.4	13.5	---
Oxidation (PA)	%	65	143	59	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0.1	0.1
Nitration (PA)	%	134	207	128	101
Sulfation (PA)	%	53	86	53	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.4	38.4
Silicon	ppm	8	10	8	7
Sodium	ppm	2	3	2	2
Potassium	ppm	0	3	2	2



WEAR METALS

Iron	ppm	7	23	10	10
Copper	ppm	5	4	4	6
Lead	ppm	2	2	<1	0
Tin	ppm	1	<1	<1	0
Aluminum	ppm	2	6	3	5
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	3	21	5	37
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	4108	3588	4047	733
Magnesium	ppm	47	225	85	467
Zinc	ppm	1152	1168	1146	548
Phosphorus	ppm	1042	949	986	473
Barium	ppm	0	0	2	0
Boron	ppm	244	135	211	20

Diagnosis

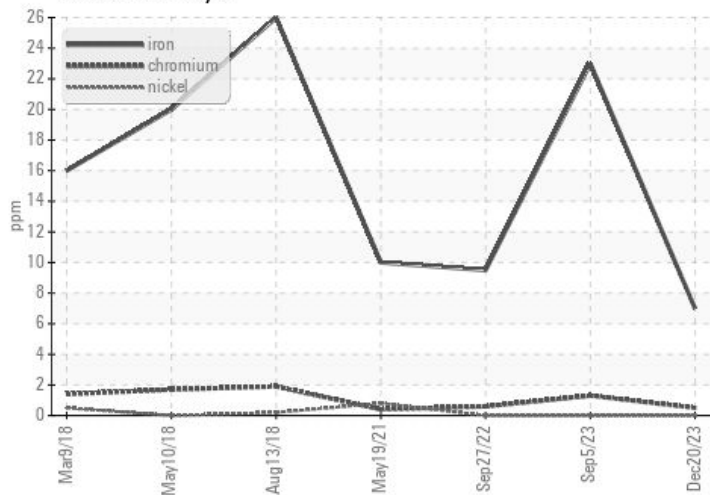
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: DAVLORVA
 Unique No: 10859459
 Signed: Wes Davis
 Report Date: 02 Feb 2024

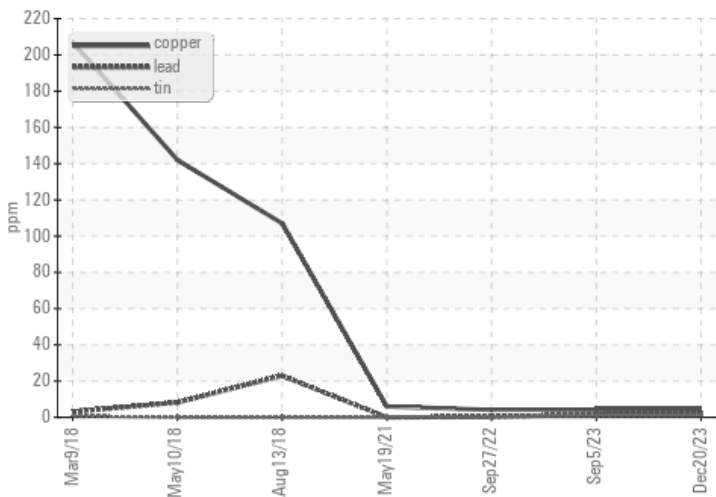


GRAPHS

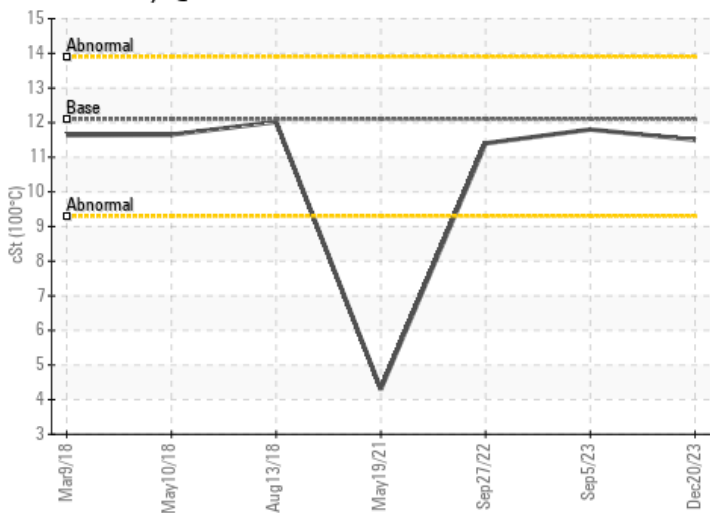
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

