

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-117 615 - Diesel Engine

Sample No: LH06072677

Oil Type: LIEBHERR MOTOROIL 5W30



RECO EQUIPMENT INC
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 BRIGHTON, MI
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SAMPLE INFORMATION

Sample Number	LH06072677	LH0243203	LHMC140854	LHMC140839
Sample Date	28 Jan 2024	14 Apr 2023	24 Aug 2021	21 Jun 2021
Machine Hours	1216	6895	3542	3193
Oil Hours	0	1000	1500	0
Oil Changed	N/A	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	11.9	11.64	11.9	11.6
Base Number (BN)	mg KOH/g	12.5	8.9	---	---
Oxidation (PA)	%	58	84	84	78



CONTAMINATION

Water	%	NEG	0.330	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	112	125	160	138
Sulfation (PA)	%	50	61	65	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	12	7
Sodium	ppm	2	2	5	3
Potassium	ppm	3	4	8	2



WEAR METALS

Iron	ppm	5	13	26	12
Copper	ppm	<1	3	4	12
Lead	ppm	<1	<1	3	2
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	<1	7	3
Chromium	ppm	0	<1	2	<1
Molybdenum	ppm	<1	<1	<1	3
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	3908	3590	4974	3919
Magnesium	ppm	29	19	30	61
Zinc	ppm	1218	1177	1297	1175
Phosphorus	ppm	1076	1023	1046	1003
Barium	ppm	0	0	0	0
Boron	ppm	274	174	230	241

Diagnosis

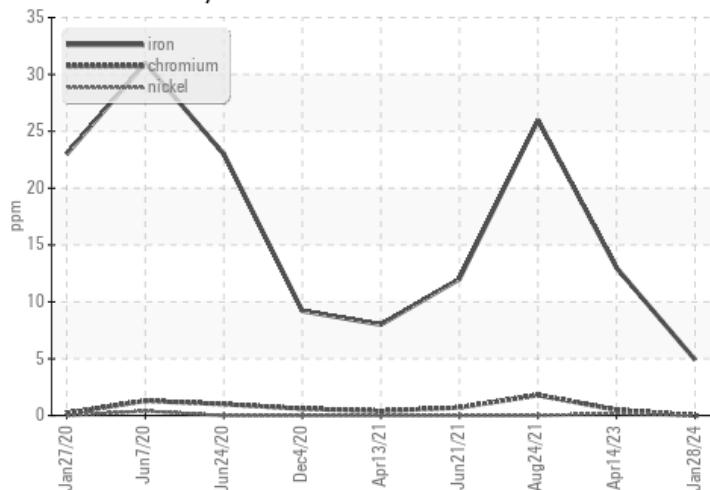
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: RECBRILH
Unique No: 10849354
Signed: Wes Davis
Report Date: 30 Jan 2024

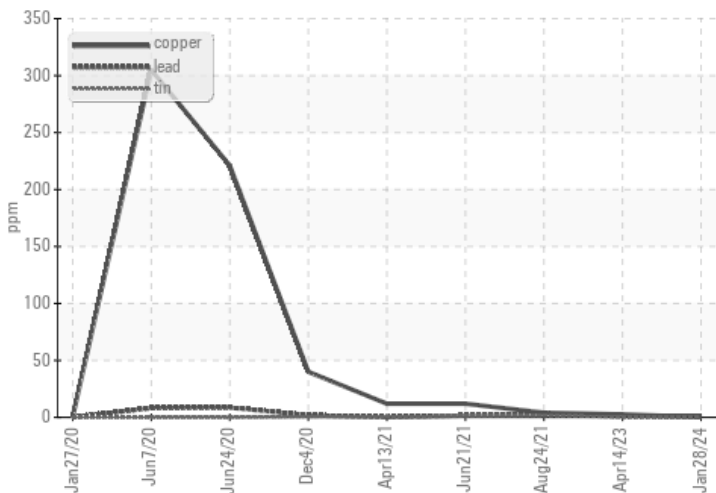


GRAPHS

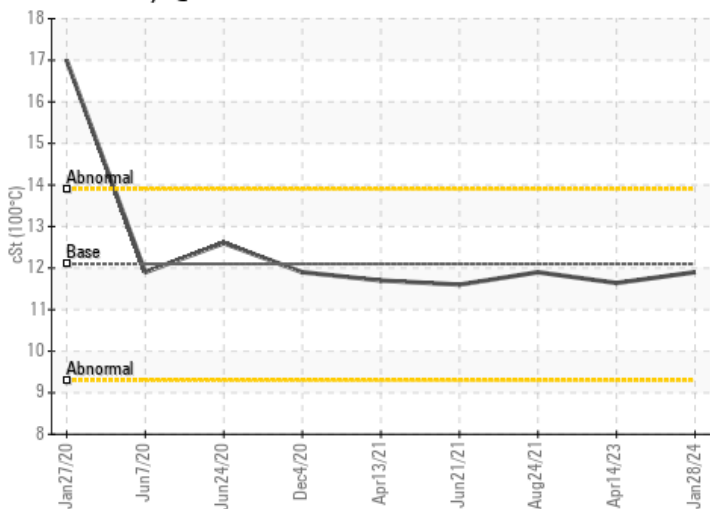
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

