

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-98638 - Transmission

Sample No: LH0268261

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0268261	LH0263934	LH0245046	LH0221001
Sample Date	25 Jan 2024	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	13406	12191	11277	10101
Oil Hours	1000	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	48.0	49.6	52.5	63.4



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	6	5	3
Sodium	ppm	3	0	3	0
Potassium	ppm	2	3	0	3

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	20	23	26	38
Copper	ppm	12	25	37	80
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	0	1
Aluminum	ppm	2	2	3	3
Chromium	ppm	0	0	0	0
Molybdenum	ppm	6	11	2	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	72	63	57	<1
Silver	ppm	0	0	0	0
Manganese	ppm	3	5	6	8
Vanadium	ppm	0	<1	0	0



ADDITIVES

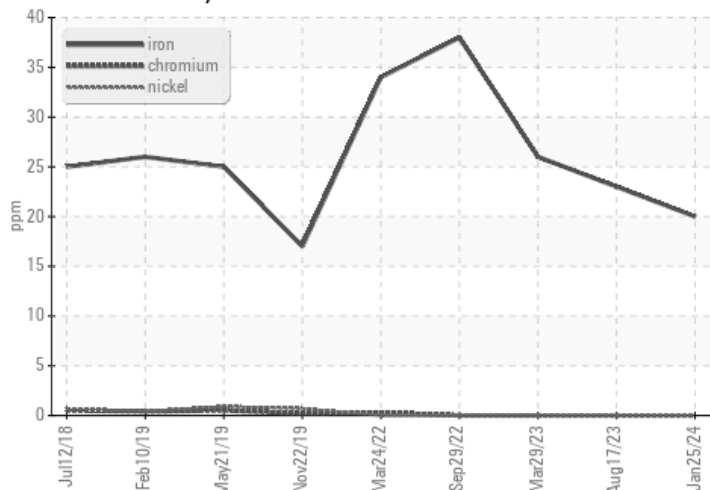
Calcium	ppm	1320	1566	1840	2821
Magnesium	ppm	621	581	457	185
Zinc	ppm	1085	1107	1091	1114
Phosphorus	ppm	961	1016	979	994
Barium	ppm	0	0	0	0
Boron	ppm	134	134	129	56

Depot: LEC007
 Unique No: 10857319
 Signed: Don Baldrige
 Report Date: 01 Feb 2024

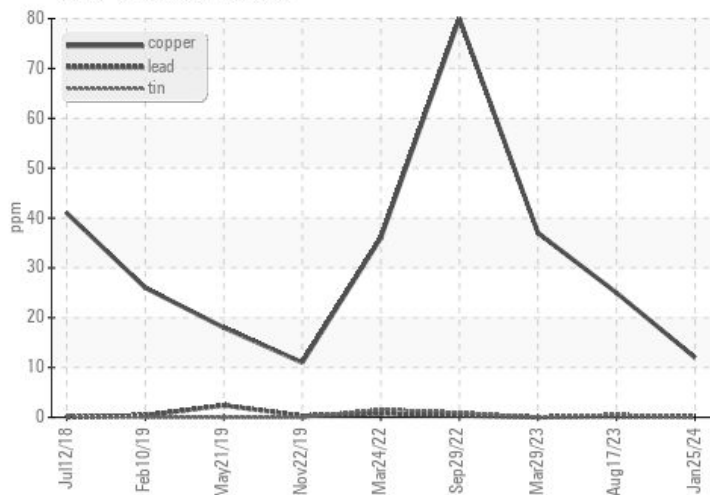


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

