

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115016 - Transmission

Sample No: LH0272130

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0272130	LH0156677	LH0156614	LH0156719
Sample Date	19 Dec 2023	30 Aug 2023	25 Apr 2023	25 Jan 2023
Machine Hours	17781	16752	15594	14552
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PCA

400 2ND STREET
INTERNATIONAL FALLS, MN
US 56649
Contact: SCOTT LINDVALL
scottlindvall@boisepaper.com
T: (218)285-5706
F:



OIL CONDITION

Visc @ 40°C	cSt	45.0	44.8	46.5	45.8



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	7	6	9
Sodium	ppm	4	4	3	4
Potassium	ppm	<1	<1	4	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	32	36	43	63
Copper	ppm	8	10	11	22
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	2	3	4	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	4	4	4
Nickel	ppm	0	0	0	<1
Titanium	ppm	87	78	49	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	4	5	8
Vanadium	ppm	<1	1	<1	0



ADDITIVES

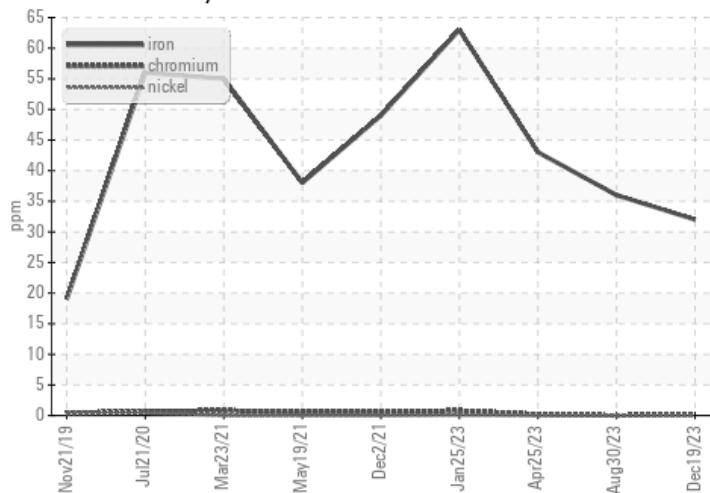
Calcium	ppm	1422	1386	1300	1269
Magnesium	ppm	745	722	731	734
Zinc	ppm	1174	1094	1054	836
Phosphorus	ppm	1033	949	875	724
Barium	ppm	0	0	0	<1
Boron	ppm	151	172	130	87

Depot: PCAINT
Unique No: 10845901
Signed: Sean Felton
Report Date: 26 Jan 2024

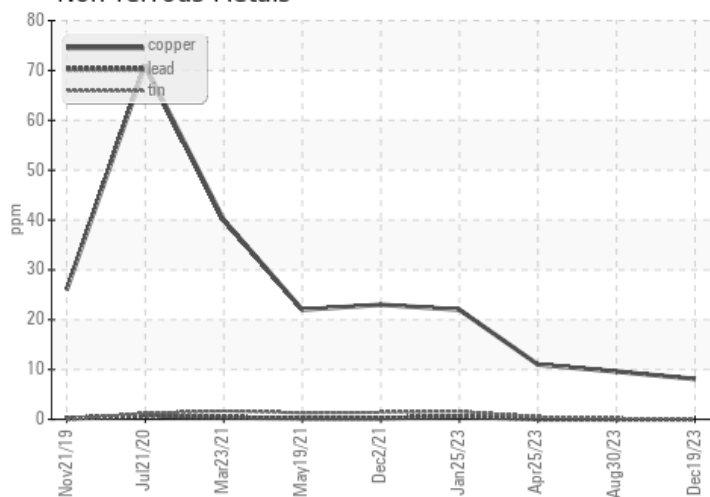


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

