

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-109092 - Front Differential

Sample No: LH0254663
 Oil Type: MOBIL 75W90



AHLSTROM-MUNKSJO NA SPECIALTY
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 KAUKAUNA, WI
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Sample Information

Sample Number	LH0254663	LHMC149390	LHMC149592	LHMC88210
Sample Date	15 May 2024	13 Apr 2023	11 Oct 2022	08 Oct 2019
Machine Hours	16447	14565	12880	2525
Oil Hours	1000	522	10355	1355
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL



Oil Condition

Visc @ 40°C	cSt	● 101	● 101	● 103	● 100
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Contamination

Water	%	NEG	NEG	NEG	● 0.184
Silicon	ppm	● 5	● 4	● 7	● 4
Sodium	ppm	● <1	● <1	● 1	● <1
Potassium	ppm	● 1	● 0	● <1	● <1



Wear Metals

Iron	ppm	● 19	● 18	● 18	● 7
Copper	ppm	● 22	● 19	● 18	● 15
Lead	ppm	● <1	● 0	● 0	● 1
Tin	ppm	● <1	● 0	● <1	● <1
Aluminum	ppm	● 2	● <1	● <1	● <1
Chromium	ppm	● <1	● 0	● <1	● <1
Molybdenum	ppm	● <1	● 0	● 0	<1
Nickel	ppm	● <1	● 0	● 0	● 0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	● 0	● <1
Manganese	ppm	● 1	● <1	● <1	<1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	● 95	● 0	● <1	3
Magnesium	ppm	5	● 0	● 0	0
Zinc	ppm	● 35	● 0	● 9	10
Phosphorus	ppm	2439	● 2226	● 2378	1884
Barium	ppm	● 0	● 0	● 0	8
Boron	ppm	384	● 364	● 352	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 condition of the oil is acceptable for the time in service.

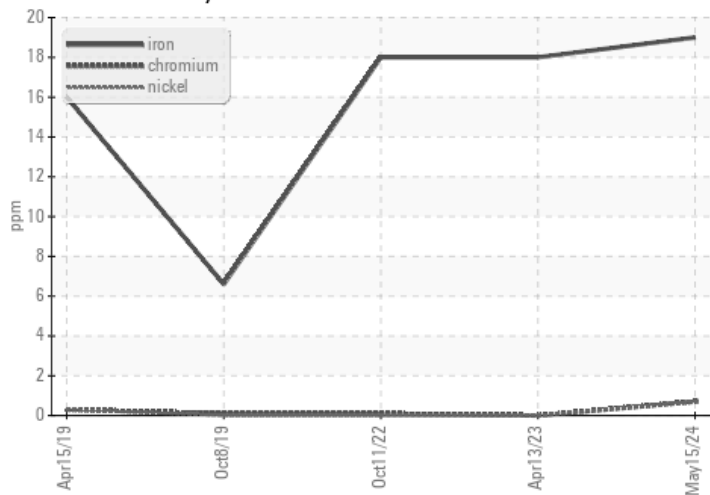
Depot: AHLKAU
 Unique No: 11036626
 Signed: Sean Felton
 Report Date: 22 May 2024

Contact/Location: JOE SEITZ - AHLKAU

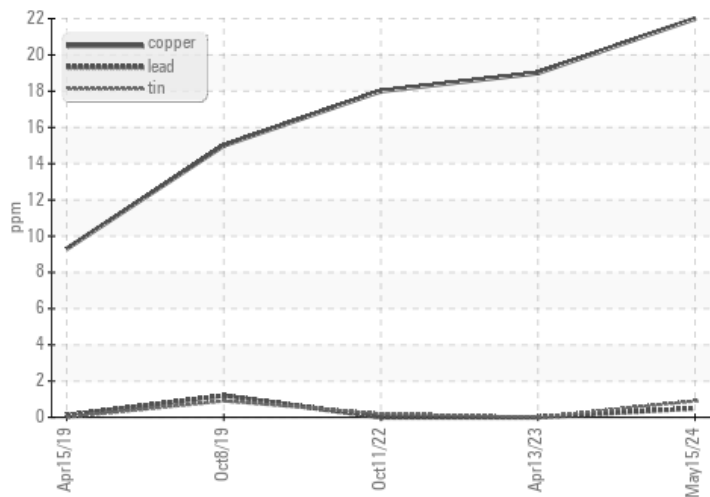


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

