

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Front Differential

Sample No: LH0211680

Oil Type: MOBIL DELVAC 1 5W40



AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
 Contact: JOE SEITZ
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 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0211680	LH0211666	LH0211652	LH0211638
Sample Date	31 Jan 2024	07 Dec 2023	09 Aug 2023	28 Mar 2023
Machine Hours	10743	9985	8617	7200
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ATTENTION	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	97.9	77.8	186	185



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	11	7	5
Sodium	ppm	<1	0	2	4
Potassium	ppm	0	1	<1	0



WEAR METALS

Iron	ppm	9	5	86	63
Copper	ppm	6	2	57	51
Lead	ppm	0	2	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	2	2	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	45	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	3	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1	942	7	6
Magnesium	ppm	<1	834	<1	3
Zinc	ppm	3	1143	39	35
Phosphorus	ppm	2128	945	1165	1046
Barium	ppm	5	0	354	347
Boron	ppm	354	69	<1	0

Diagnosis

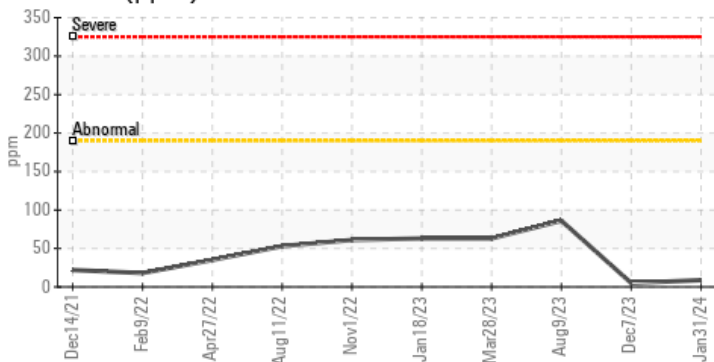
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: AHLKAU
 Unique No: 10871837
 Signed: Sean Felton
 Report Date: 12 Feb 2024

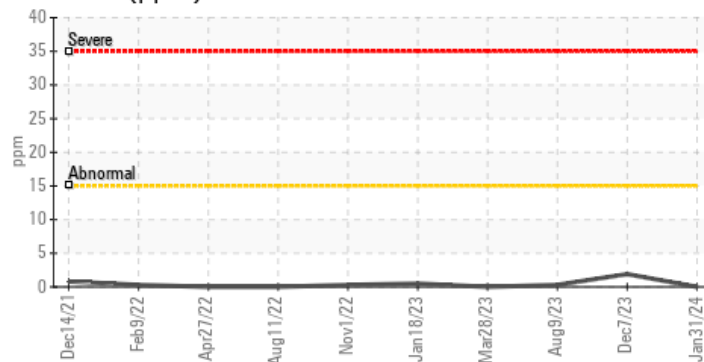


GRAPHS

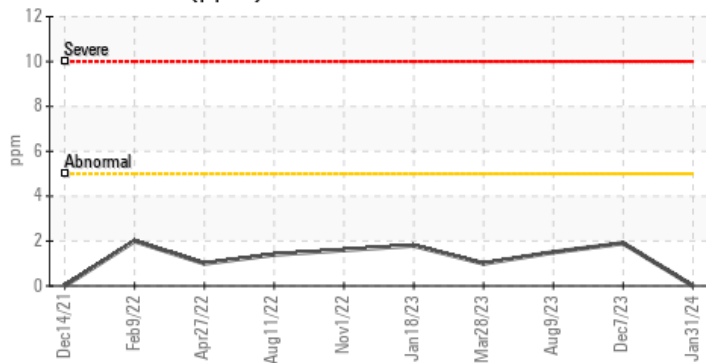
Iron (ppm)



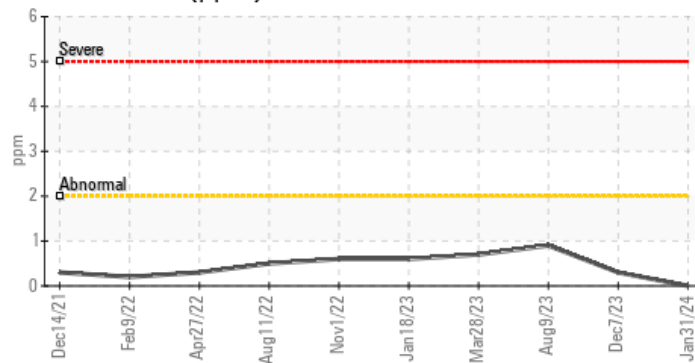
Lead (ppm)



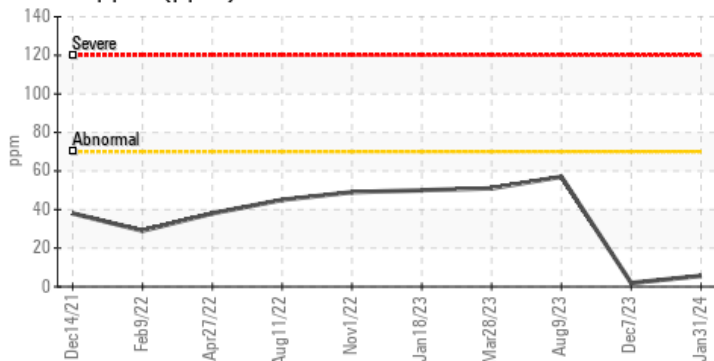
Aluminum (ppm)



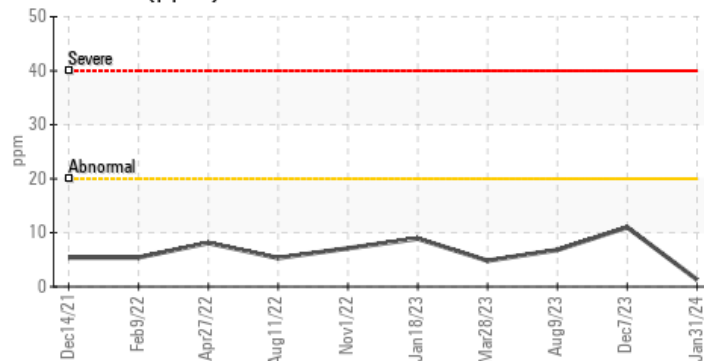
Chromium (ppm)



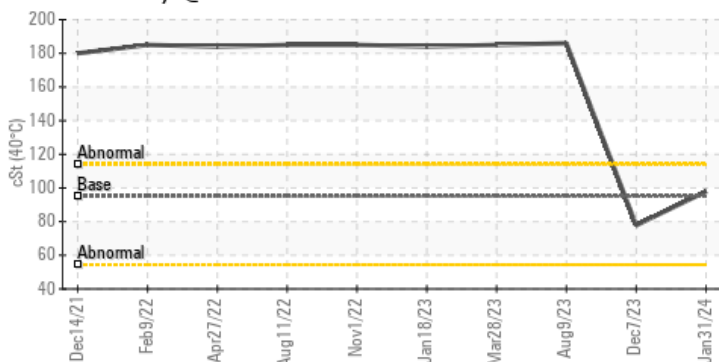
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

