

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Front Differential

Sample No: LH0211666

Oil Type: MOBIL DELVAC 1 5W40



AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
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 T:
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SAMPLE INFORMATION

Sample Number	LH0211666	LH0211652	LH0211638	LH0211624
Sample Date	07 Dec 2023	09 Aug 2023	28 Mar 2023	18 Jan 2023
Machine Hours	9985	8617	7200	6180
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	77.8	186	185	184
		●			●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 11	● 7	● 5	● 9
Sodium	ppm	● 0	● 2	● 4	● 5
Potassium	ppm	● 1	● <1	● 0	● <1



WEAR METALS

Iron	ppm	● 5	● 86	● 63	● 63
Copper	ppm	● 2	● 57	● 51	● 50
Lead	ppm	● 2	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● 2	● 2	● 1	● 2
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 45	● <1	● <1	● <1
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	● 0	● 3	● 3	● 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 942	● 7	● 6	● 7
Magnesium	ppm	● 834	● <1	● 3	● <1
Zinc	ppm	● 1143	● 39	● 35	● 36
Phosphorus	ppm	● 945	● 1165	● 1046	● 1093
Barium	ppm	● 0	● 354	● 347	● 367
Boron	ppm	● 69	● <1	● 0	● 1

Diagnosis

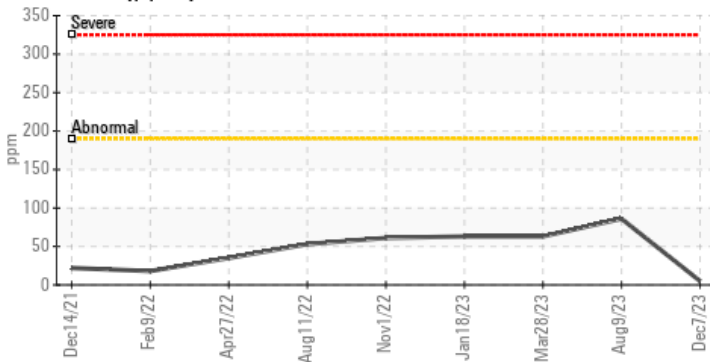
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: AHLKAU
 Unique No: 10808070
 Signed: Angela Borella
 Report Date: 29 Dec 2023

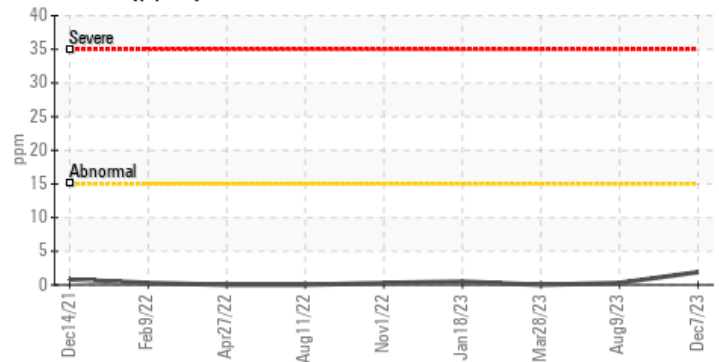


GRAPHS

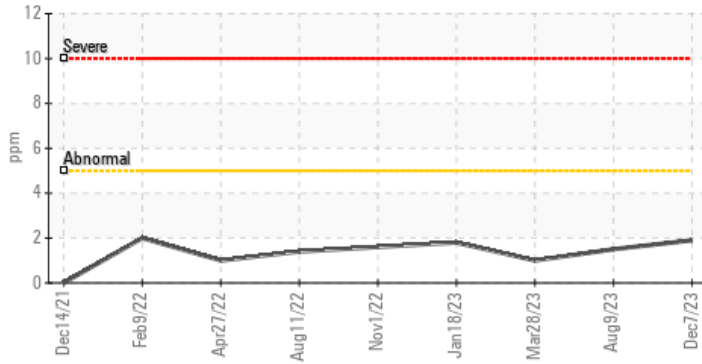
Iron (ppm)



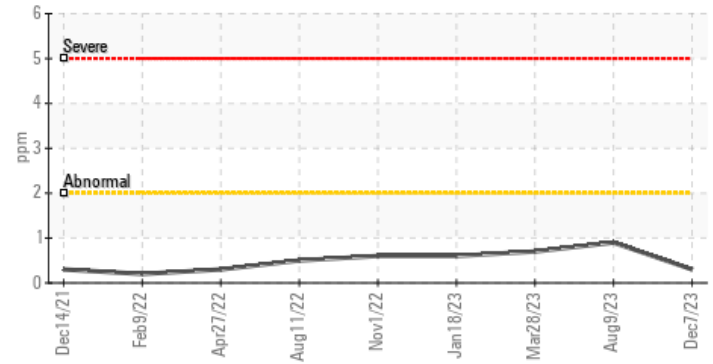
Lead (ppm)



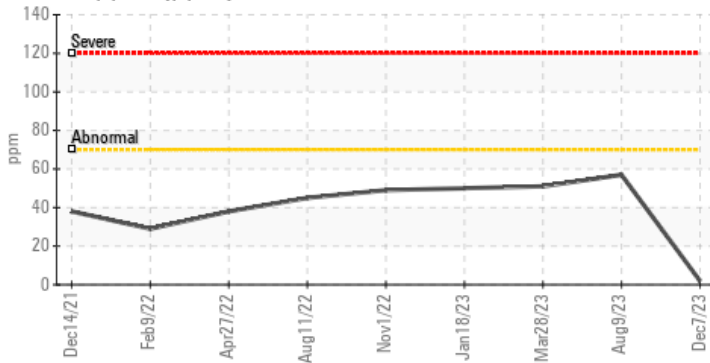
Aluminum (ppm)



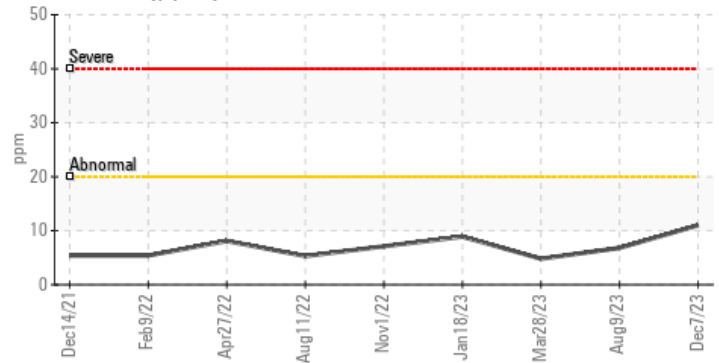
Chromium (ppm)



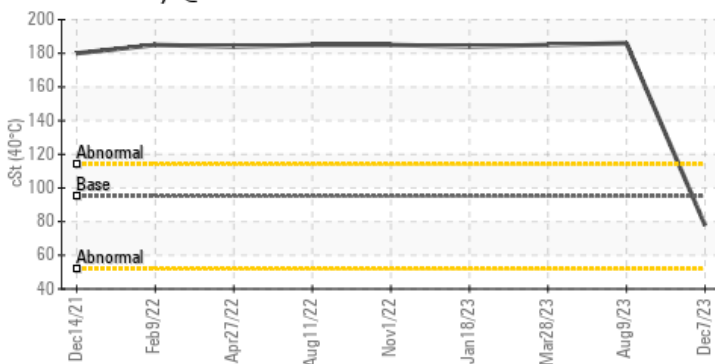
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

