

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 139284-1253 - Rear Differential

Sample No: LH0241882

Oil Type: TOTAL FINA TOTAL TRANSMISSION SYN NA 75W90



HUBERT & FILS
 474 ROUTE 105
 BOIS-FRANC, QC
 CA J9E 3A9
 Contact: Eric Brisebois
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 T:
 F:



Sample Information

Sample Number	LH0241882	LH0241894	LH0241870	LH0239951
Sample Date	16 Jul 2024	01 Mar 2024	31 Oct 2023	04 Sep 2023
Machine Hours	5043	3900	2739	2265
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	97.9	169	179	179



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	1	1	<1
Sodium	ppm	3	3	2	2
Potassium	ppm	1	<1	0	0



Wear Metals

Iron	ppm	6	9	6	6
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	14	17	22	30
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	12	6	4	9
Phosphorus	ppm	961	2056	2272	2295
Barium	ppm	0	0	0	<1
Boron	ppm	31	2	2	5

Diagnosis

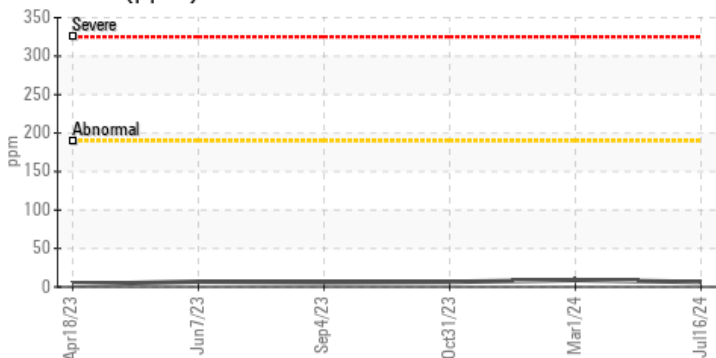
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: HUBBOI
 Unique No: 5814311
 Signed: Wes Davis
 Report Date: 18 Jul 2024

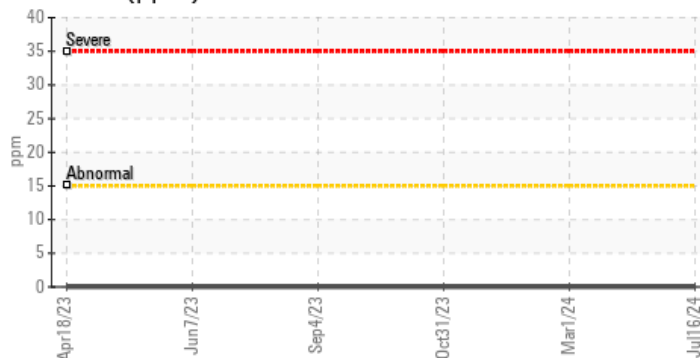


Graphs

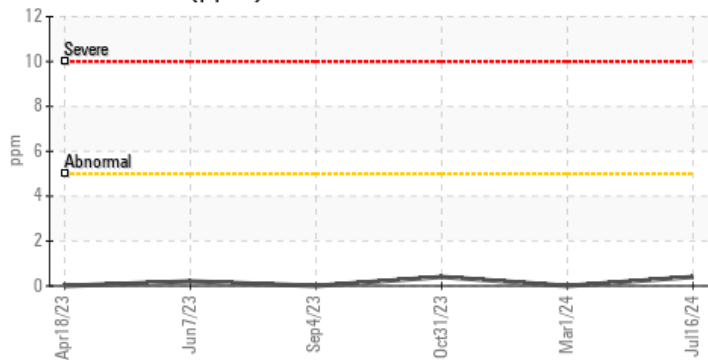
Iron (ppm)



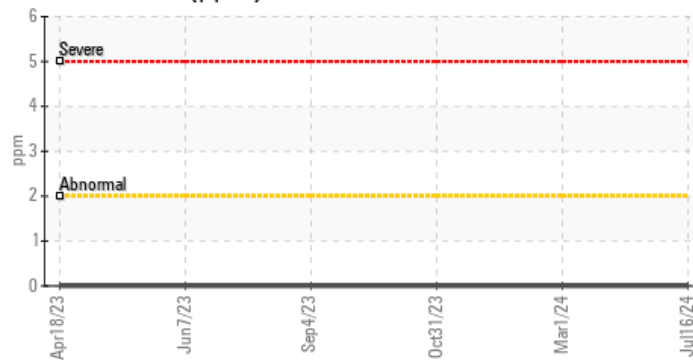
Lead (ppm)



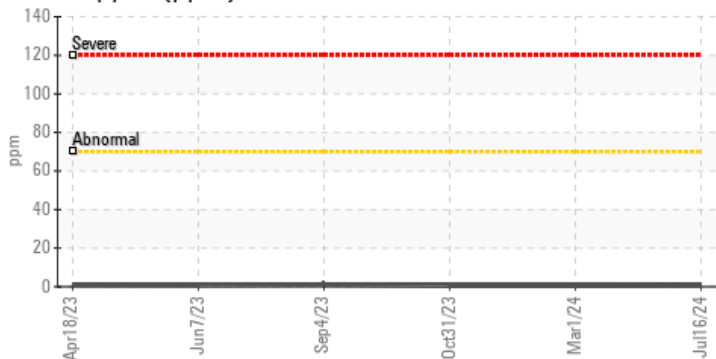
Aluminum (ppm)



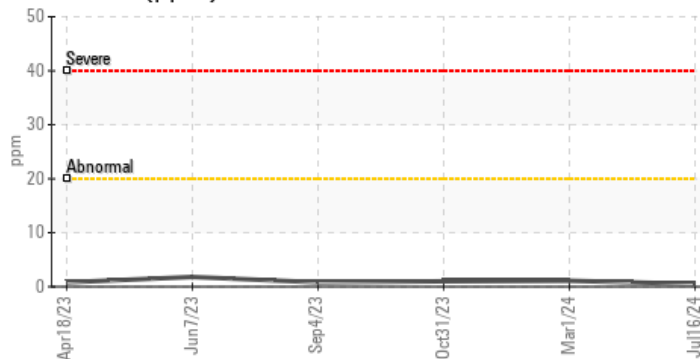
Chromium (ppm)



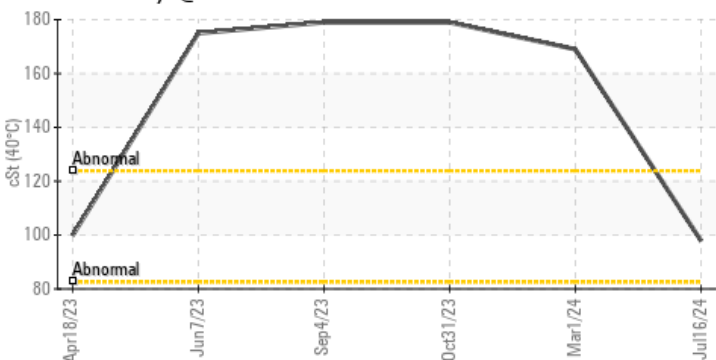
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

