LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 137429 - Splitter Box

Sample No: LH0274500

Oil Type: LIEBHERR GEAR BASIC 90 LS

5						
SAMP	LE INFOR	MATION				
Sample Number		LH0274500	LH0247024	LH0251552	LH0251873	
Sample Date		20 Aug 2023	11 Jun 2023	11 Apr 2023	23 Feb 2023	
Machine Hours		6359	5689	5027	4360	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL	
OIL CONDITION						
Visc @ 40°C	cSt	88.9	91.9	92.0	92.3	
- 1 Table 1						
CONTAMINATION						
Silicon	ppm	2	O 1	O 2	O 2	
Sodium	ppm	0 <1	O <1	O <1	O <1	
Potassium	ppm	0 <1	O <1	1	O <1	

WEAR METALS						
Iron	ppm	14	9	O 15	O 13	
Copper	ppm	O <1	O <1	O <1	O <1	
Lead	ppm	2	O <1	O 0	O 0	
Tin	ppm	0	O 0	O 0	O 0	
Aluminum	ppm	() <1	0	O <1	O <1	
Chromium	ppm	() <1	O 0	O 0	O 0	
Molybdenum	ppm	0	O	O 0	O 0	
Nickel	ppm	() <1	O 0	O 0	O <1	
Titanium	ppm	0	0	0	0	
Silver	ppm	<1	6	0	0	
Manganese	ppm	0	O 0	<1	O 0	
Vanadium	ppm	0	0	0	0	

ADDITIVES						
			4.0			
Calcium	ppm	30	18	10	0 /	
Magnesium	ppm	2	1	1	O 1	
Zinc	ppm	48	27	15	10	
Phosphorus	ppm	1350	1388	1425	1425	
Barium	ppm	0	O	O	O	
Boron	ppm	308	289	268	262	





CMI - COMBINED METAL INDUSTRIES 505 GARY RAY DRIVE NORTH YORK, ON CA M9L 1P9 Contact: Greg Sacher gsacher@combinedmetal.com T: (416)642-7262

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Diagnosis

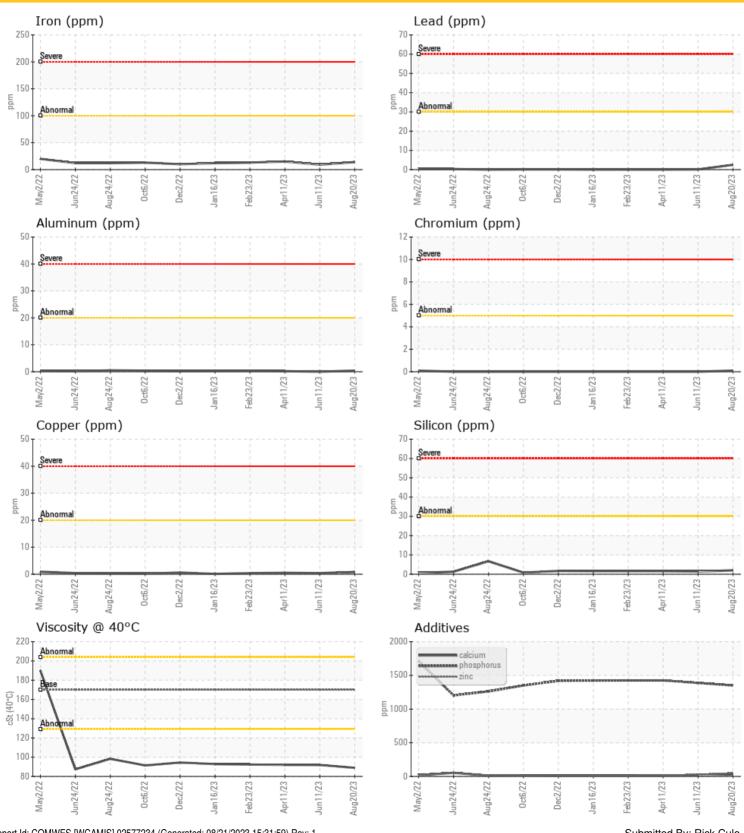
Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of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

Depot:COMWESUnique No:5630294Signed:Wes DavisReport Date:21 Aug 2023





GRAPHS



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Submitted By: Rick Cule