LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 144157-1216 - Front Differential

Sample No: LH0255451

Oil Type: LIEBHERR SYNTOGEAR PLUS 75W-90

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O Sam	ple Info	rmation			
		LH0255451	LH0255439	LH0225083	
Sample Number					
Sample Date		21 Jun 2024	17 Nov 2023	15 Feb 2023	
Machine Hours		3338	2077	472	
Oil Hours		0	0	0	
Oil Changed		N/A	N/A	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
Oil	ondition	1			
Visc @ 40°C	cSt	104	O 105	176	
Con	taminati	ion			
Water	%	NEG	NEG	NEG	
Silicon	ppm	3	3	O 2	
Sodium	ppm	() <1	3	3	
Potassium	ppm	0 <1	O 0	O 0	
	ar Metal	~	0.4	0.4	
Iron	ppm	O 5	0 4	O 4	***
Copper	ppm	45	34	0 4	
Lead 	ppm	O <1	0 2	O <1	
Tin	ppm	0 0	0	0	
Aluminum	ppm	O <1	O <1	0	
Chromium	ppm	0 0	0	0	
Molybdenum	ppm	0	0	0	
Nickel	ppm	○ <1	0	<1	
Titanium	ppm	0	0	0	
Silver	ppm	0	<1	0	
Manganese	ppm	() <1	O 0	O <1	
Vanadium	ppm	0	0	0	
Add	litives				
Calcium	ppm	19	O 21	O 4	
Magnesium	ppm	<1	2	O <1	
				-	

26

1287

330

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06

1371

295



CALGARY METALS (1985) LTD.
3415 OGDEN RD. SE.
CALGARY, AB
CA T2G 4N4
Contact: Steve Goodzeck
sgoodzeck@calgarymetal.com
T: (403)262-4542

F:

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR SYNTOGEAR PLUS 75W-90, however, a fluid match indicates that this fluid is SAE 75W90 Gear Oil. Please confirm the oil type and grade on your next sample.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:CAL341CALUnique No:5802210Signed:Kevin MarsonReport Date:02 Jul 2024

29

1234

5

316

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus

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Graphs

