LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR A913 143645-1824 - Rear Differential

Sample No: LH0269801

Oil Type: LIEBHERR GEAR BASIC 90 LS

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SAMPLEINFORMATION							
Sample Number	LH0269801						
Sample Date	28 Dec 2023						
Machine Hours	643						
Oil Hours	0						
Oil Changed	Changed						
Sample Status	NORMAL						

A					
	OIL CC	NDITION			
isc @	40°C	cSt	81.9	 	

CONTAMINATION									
Water	%	NEG							
Silicon	ppm	17							
Sodium	ppm	2							
Potassium	ppm	12							

₩EA	R META	LS		
Iron	ppm	66	 	
Copper	ppm	○ <1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	1	 	
Chromium	ppm	0 1	 	
Molybdenum	ppm	2	 	
Nickel	ppm	0 <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	800				
Magnesium	ppm	3				
Zinc	ppm	1422				
Phosphorus	ppm	707				
Barium	ppm	4				
Boron	ppm	101				



SHAMROCK EARTHWORKS LTD 351 EVERSYDE WAY SW CALGARY, AB CA T2Y 4R2

Contact: Service Manager

T: F:

Diagnosis

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. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Confirm the source of the lubricant

Depot:SHA351CALUnique No:5707096Signed:Kevin MarsonReport Date:02 Jan 2024

LIEBHERR







GRAPHS

