LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0260177

Oil Type: GEAR OIL SAE 75W90

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SAMPLEINFORMATION					
Sample Number		LH0260177		***	
Sample Date		07 Jun 2023			
Machine Hours		0			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		SEVERE			
OIL C	ONDITION	l			
Visc @ 40°C	cSt	106			
V13C @ 40 C	COL	0 100			
CON	TAMINATI	ON			
Silicon	ppm	<u> </u>			
Sodium	ppm	2			
Potassium	ppm	0 1			
(O) WEA	R METALS				
	K ME I ALS				
PQ		○ 39			
Iron	ppm	1624			
Copper	ppm	873			
Lead	ppm	22			
Tin	ppm	34			
Aluminum	ppm	○ <1			
Chromium	ppm	9			
Molybdenum	ppm	○ <1			
Nickel	ppm	() <1			
Titanium	ppm	0			
Silver	ppm	0			
Manganese	ppm	12			
Vanadium	ppm	0			
ADD	ITIVES				
Calcium	ppm	13			
Magnesium	ppm	7			
Zinc	ppm	65			
Phosphorus	ppm	1374			
Barium	ppm	0 <1			
Boron	ppm	182			



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Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.Copper, iron and tin ppm levels are severe. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:MANSELUnique No:5631909Signed:Kevin MarsonReport Date:29 Aug 2023

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GRAPHS

