LIEBHERR

CONSTRUCTION EQUIPMENT

[MARATHON] LIEBHERR HS855 184576 - Splitter Box

Sample No: LH0296766

Oil Type: GEAR OIL SAE 75W90

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J Sam	ple Infor	mation		
Sample Number		LH0296766	LH0134221	
Sample Date		27 Jun 2024	30 May 2019	
Machine Hours		25032	21032	
Oil Hours		0	0	
Oil Changed		Changed	Not Changd	
Sample Status		ABNORMAL	SEVERE	
<u> </u>				
Oilc	ondition			
Visc @ 40°C	cSt	58.5	O 96.6	
V13C @ +0 C	COL	30.3	0 30.0	
Const	aminatio			
Water	%	NEG	1.565	
Silicon	ppm	O 11	<u> </u>	
Sodium	ppm	2	O 3	
Potassium	ppm	2	3	
O				
Wed	ır Metals			
PQ		10	080	
Iron	ppm	207	<u> </u>	
Copper	ppm	3	O <1	
Lead	ppm	○ <1	O <1	
Tin	ppm	0 0	O 0	
Aluminum	ppm	5	O 6	
Chromium	ppm	3	O 2	
Molybdenum	ppm	0 0	O <1	
Nickel	ppm	○ <1	O 0	
Titanium	ppm	<1	<1	
Silver	ppm	0	0	
Manganese	ppm	2	O 2	
Vanadium	ppm	0	0	
Add	itives			
Calcium	ppm	<u> </u>	O 18	
Magnesium	ppm	O 1	O 3	
Zinc	ppm	109	O 65	
Phosphorus	ppm	662	0 1314	
Barium	ppm	1	O <1	



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Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:LIEMISUnique No:5802499Signed:Kevin MarsonReport Date:03 Jul 2024

Contact/Location: Steve Lehto - LIEMIS

ppm

65

Boron







Graphs

