LIEBHERR

CONSTRUCTION EQUIPMENT

[MARATHON] LIEBHERR HS855 184576 - Boom Winch

Sample No: LH0296759

Oil Type: GEAR OIL SAE 75W90

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U Sam	ple Info	rmation		
Sample Number		LH0296759	LH0140940	
Sample Date		27 Jun 2024	30 May 2019	
Machine Hours		25032	21032	
Oil Hours		0	0	
Oil Changed		Changed	Not Changd	
Sample Status		NORMAL	ABNORMAL	
A				
016	ondition			
Visc @ 40°C	cSt	165	O 115	
Cont	aminati	on		
Water	%	NEG	0.231	
Silicon	ppm	01	0 2	
Sodium	ppm	3	O 4	
Potassium	ppm	0 <1	0 <1	
	ppiii	0 11		
(O) Was	ır Metal	_		
- AA GO	ir metai			
Iron	ppm	35	17	
Copper	ppm	() <1	O 0	
Lead	ppm	0 0	O <1	
Tin	ppm	0	<1	
Aluminum	ppm	○ <1	O <1	
Chromium	ppm	○ <1	0	
Molybdenum	ppm	○ <1	O <1	
Nickel	ppm	○ <1	0	
Titanium	ppm	<1	<1	
Silver	ppm	0	0	
Manganese	ppm	1	O 1	
Vanadium	ppm	0	0	
Addi	itives			
Calcium	ppm	15	O 16	
Magnesium	ppm	6	0 1	
Zinc	ppm	O 15	O 192	
Phosphorus		362	0 1342	
Hospilorus	ppm	302	0 1342	

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Diagnosis

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 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot:LIEMISUnique No:5802494Signed:Kevin MarsonReport Date:02 Jul 2024

Contact/Location: Steve Lehto - LIEMIS

<1</p>

23

ppm

ppm

Barium

Boron

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Graphs

