LIEBHERR

CONSTRUCTION EQUIPMENT

[MARATHON] LIEBHERR HS855 184576 - Diesel Engine

Sample No: LH0296767

Oil Type: DIESEL ENGINE OIL SAE 15W40

5						
Sample Information						
Sample Number		LH0296767	LH0134224			
Sample Date		27 Jun 2024	30 May 2019			
Machine Hours		25032	21032			
Oil Hours		0	0			
Oil Changed		Changed	Not Changd			
Sample Status		NORMAL	NORMAL			
Oil Condition						
Visc @ 40°C	cSt	97.8				

Oil Co	ndition			
Visc @ 40°C	cSt	97.8		
Visc @ 100°C	cSt	13.5	13.2	
Viscosity Index (VI)	Scale	138		
Oxidation (PA)	%	68	89	

Contamination						
Water	%	NEG	NEG			
Soot %	%	0	0.3			
Nitration (PA)	%	79	93			
Sulfation (PA)	%	58	73			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	<1.0			
Silicon	ppm	7	O 16			
Sodium	ppm	12	○ 33			
Potassium	ppm	3	3			

(O) Was				
Wed	ır Metals			
Iron	ppm	8	O 30	
Copper	ppm	() <1	O 1	
Lead	ppm	0	3	
Tin	ppm	0	0	
Aluminum	ppm	2	6	
Chromium	ppm	0	O 2	
Molybdenum	ppm	5	O 70	
Nickel	ppm	() <1	O <1	
Titanium	ppm	82	O <1	
Silver	ppm	0	0	
Manganese	ppm	 <1	O <1	
Vanadium	ppm	<1	0	

Additives						
Calcium	ppm	1847	O 1432			
Magnesium	ppm	384	O 1114			
Zinc	ppm	1165	O 1541			
Phosphorus	ppm	971	O 1179			
Barium	ppm	○ <1	0			
Boron	ppm	92	6			



LIEBHERR CANADA LTD.

1015 SUTTON DRIVE
BURLINGTON, ON
CA L7L 5Z8
Contact: Steve Lehto
steve.lehto@liebherr.com

T: (905)319-9222 F: (905)319-6617

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. The condition of the oil is acceptable for the time in service.

Depot:LIEMISUnique No:5802319Signed:Kevin MarsonReport Date:02 Jul 2024

Contact/Location: Steve Lehto - LIEMIS

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Graphs

