LIEBHERR

CONSTRUCTION EQUIPMENT



[[MCDONAGH]] LIEBHERR R956 056876-1728 - Diesel Engine

Sample No: LH0258538

Oil Type: DIESEL ENGINE OIL SAE 5W40

5				
SAMP	LE INFOR	MATION		
Sample Number		LH0258538	LH0267589	
Sample Date		12 Feb 2024	28 Oct 2023	
Machine Hours		1075	552	
Oil Hours		500	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ATTENTION	
<u> </u>				
OII CO	NDITION			
Visc @ 100°C	cSt	13.3	12.4	
Base Number (BN)	mg KOH/g	5.7	4.6	
Oxidation (PA)	%	78	191	
24 C				
CONT	AMINATI	ON		
Water	%	NEG	NEG	
Soot %	%	0.1	0.1	
Nitration (PA)	%	73	96	
Sulfation (PA)	%	60	104	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	O 1.0	
Silicon	ppm	8	O 10	
Sodium	ppm	3	0 0	
Potassium	ppm	0 4	09	

()				
WEA	R META	LS		
Iron	ppm	0 1	O 18	
Copper	ppm	70	○ 200	
Lead	ppm	2	3	
Tin	ppm	○ <1	O 1	
Aluminum	ppm	2	4	
Chromium	ppm	○ <1	O 1	
Molybdenum	ppm	21	46	
Nickel	ppm	0	O <1	
Titanium	ppm	○ <1	<1	
Silver	ppm	0	O 0	
Manganese	ppm	() <1	1	
Vanadium	ppm	<1	0	

ADDITIVES							
Calcium	ppm	1377	O 1272				
Magnesium	ppm	748	O 882				
Zinc	ppm	933	907				
Phosphorus	ppm	777	753				
Barium	ppm	5	○ 28				
Boron	ppm	71	O 84				



FINKBINER EQUIPMENT CO.

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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:LEC0033Unique No:10899047Signed:Wes DavisReport Date:27 Feb 2024

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GRAPHS







