LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-118289 - Diesel Engine

Sample No: LH06135426

Oil Type: DIESEL ENGINE OIL SAE 30

Sample Information							
Sample Number	LH06135426	LH05693122	LH05370547				
Sample Date	31 Mar 2024	13 Nov 2022	10 Oct 2021				
Machine Hours	5050	0	1635				
Oil Hours	0	0	0				
Oil Changed	Not Changd	N/A	Changed				
Sample Status	NORMAL	NORMAL	ABNORMAL				

Oil Co	ndition				
Visc @ 100°C	cSt	11.5	11.6	11.7	
Base Number (BN)	mg KOH/g	7.4	9.9		
Oxidation (PA)	%	119	92	192	

Conte	aminatio	n			
Water	%	NEG	0.104	0.111	
Soot %	%	0.2	0.1	0.1	
Nitration (PA)	%	202	157	138	
Sulfation (PA)	%	75	68	108	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	O 1.2	
Silicon	ppm	7	7	9	
Sodium	ppm	3	O 1	4	
Potassium	ppm	4	O 1	9	

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Wed	ar Metals				
Iron	ppm	24	O 21	O 22	
Copper	ppm	6	O 10	57	
Lead	ppm	5	4	<u> </u>	
Tin	ppm	() <1	O 1	O 2	
Aluminum	ppm	3	3	6	
Chromium	ppm	○ <1	O <1	O <1	
Molybdenum	ppm	1	O 11	32	
Nickel	ppm	0	O 0	O <1	
Titanium	ppm	0	0	<1	
Silver	ppm	0	O <1	<1	
Manganese	ppm	0	<1	1	
Vanadium	ppm	0	0	<1	

Add	litives				
Calcium	ppm	4421	○ 3886	O 1901	
Magnesium	ppm	51	109	746	
Zinc	ppm	1171	O 1094	951	
Phosphorus	ppm	1081	998	O 745	
Barium	ppm	0	0	46	
Boron	ppm	178	O 156	76	



KOVALCHICK CORP 1060 WAYNE AVENUE INDIANA, PA US 15701 Contact: Service Manager

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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. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:KOVINDUnique No:10954891Signed:Sean FeltonReport Date:04 Apr 2024

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Graphs

