LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 1253-121539 - Diesel Engine

Sample No: LH0213358

_

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLEINFORMATION									
Sample Number	LH0213358	LH0213330	LH0213327	LH0213326					
Sample Date	07 Sep 2024	16 Oct 2022	16 Oct 2022	17 Nov 2021					
Machine Hours	3000	1000	750	491					
Oil Hours	0	0	0	0					
Oil Changed	N/A	N/A	N/A	Not Changd					
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION					

OILC	ONDITION				
Visc @ 100°C	cSt	12.5	11.3	11.2	O 11.6
Base Number (BN)	mg KOH/g	5.1	4.4	4.4	4.7
Oxidation (PA)	%	88	200	201	188

CONTAMINATION						
Soot %	%	0.1	0.1	0.1	0.1	
Nitration (PA)	%	82	117	118	88	
Sulfation (PA)	%	65	114	114	106	
Glycol	%	NEG	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	○ 1.4	
Silicon	ppm	8	O 7	0 8	9	
Sodium	ppm	() <1	3	3	3	
Potassium	ppm	2	O 4	O 5	3	

10					
WEA	R META	LS			
Iron	ppm	8	O 18	18	O 12
Copper	ppm	27	O 151	O 155	O 161
Lead	ppm	3	O 13	O 13	O 5
Tin	ppm	1	O 2	O 2	O 2
Aluminum	ppm	() <1	O <1	<1	O 1
Chromium	ppm	○ <1	O 1	O 1	O <1
Molybdenum	ppm	61	O 42	4 3	44
Nickel	ppm	0	0	O 0	0
Titanium	ppm	() <1	2	2	<1
Silver	ppm	0	0	0	1
Manganese	ppm	<1	2	2	2
Vanadium	ppm	0	0	0	0

ADDITIVES						
Calcium	ppm	1775	O 1297	O 1381	O 1420	
Magnesium	ppm	452	780	○ 815	933	
Zinc	ppm	1215	○ 805	○ 842	○ 859	
Phosphorus	ppm	975	588	603	708	
Barium	ppm	0	35	36	O 21	
Boron	ppm	24	48	5 3	O 101	



KEYSTONE RAIL RECOVERY 70 MARYLAND AVE JERSEY SHORE, NJ US 17740

Contact: Service Manager

T: F:

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

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: KEYJER
Unique No: 10615982
Signed: Wes Davis
Report Date: 22 Aug 2023

LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS

