

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Diesel Engine

Sample No: LHMC107786

Oil Type: LIEBHERR MOTOROIL 5W30



Sample Information

Sample Number	LHMC107786	LH0272832	LH0254119	LHMC116829
Sample Date	17 Apr 2024	20 Dec 2023	17 Jun 2023	29 Sep 2022
Machine Hours	5177	4719	4033	2906
Oil Hours	458	686	775	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	SEVERE	NORMAL

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 T:
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Oil Condition

Visc @ 100°C	cSt	13.3	12.7	10.2	9.6
Base Number (BN)	mg KOH/g	7.6	6.4	1.7	5.2
Oxidation (PA)	%	84	90	144	89

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 suitable for further service.



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	83	89	150	97
Sulfation (PA)	%	55	57	80	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	8	10
Sodium	ppm	3	2	2	<1
Potassium	ppm	4	6	15	15



Wear Metals

Iron	ppm	6	3	25	17
Copper	ppm	2	4	19	22
Lead	ppm	<1	1	0	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	2	2	5	2
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	4	8	45	43
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	1271	1158	872	871
Magnesium	ppm	764	761	795	705
Zinc	ppm	958	845	805	746
Phosphorus	ppm	806	770	686	613
Barium	ppm	<1	0	1	5
Boron	ppm	129	82	56	31

Depot: DAVLORVA
Unique No: 10992068
Signed: Sean Felton
Report Date: 24 Apr 2024



Graphs

