

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1200-80364 - Diesel Engine

Sample No: LHMC60119

Oil Type: DURALENE Dura-Max 15W40



Sample Information

Sample Number	LHMC60119	LHMC125745	LHMC120507	---
Sample Date	03 Jul 2024	25 Jul 2019	12 Apr 2018	---
Machine Hours	4943	1973	1040	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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Oil Condition

Visc @ 100°C	cSt	12.9	13.3	14.58	---
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	87	57	48	---

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	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	72	75	50	---
Sulfation (PA)	%	60	57	42	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	11	10	8	---
Sodium	ppm	3	5	4	---
Potassium	ppm	5	3	4	---



Wear Metals

Iron	ppm	7	9	13	---
Copper	ppm	2	13	469	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	6	3	6	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	43	11	36	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	2	0	---
Silver	ppm	<1	<1	<1	---
Manganese	ppm	1	<1	2	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	1837	1405	1187	---
Magnesium	ppm	522	616	662	---
Zinc	ppm	1031	1058	1009	---
Phosphorus	ppm	852	959	919	---
Barium	ppm	0	0	3	---
Boron	ppm	36	90	4	---

Depot: CONHAG
Unique No: 11128859
Signed: Wes Davis
Report Date: 18 Jul 2024



Graphs

