

LIEBHERR

CONSTRUCTION EQUIPMENT



[RMR-Louisville] LIEBHERR LH60M 114199-1217 - Diesel Engine

Sample No: LHMC79469

Oil Type: DIESEL ENGINE OIL SAE 5W30



RIVER METALS RECYCLING - LOUISVILLE
PO BOX 6521
LOUISVILLE, KY
US 40206
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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 condition of the oil is acceptable for the time in service.



SAMPLE INFORMATION

Sample Number	LHMC79469	LHMC107638	LHMC107729	LHMC84891
Sample Date	16 Jun 2021	03 Mar 2021	18 Nov 2020	03 Apr 2020
Machine Hours	4478	3793	3111	1846
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	11.9	11.8	12.4	11.7
Oxidation (PA)	%	106	113	159	139



CONTAMINATION

Water	%	---	---	0.108	---
Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	108	103	151	122
Sulfation (PA)	%	71	70	87	78
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	9	10
Sodium	ppm	5	6	7	5
Potassium	ppm	2	1	16	11



WEAR METALS

Iron	ppm	7	7	17	18
Copper	ppm	4	4	11	28
Lead	ppm	<1	<1	0	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	2	6	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	58	58	48
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	855	825	954	1520
Magnesium	ppm	1095	1135	1172	994
Zinc	ppm	1241	1238	1266	1142
Phosphorus	ppm	1034	1033	1007	959
Barium	ppm	0	0	0	5
Boron	ppm	25	20	8	21

Depot: RIVLOU
Unique No: 9582888
Signed: Don Baldrige
Report Date: 19 Jul 2021



GRAPHS

