

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 099250-1475 - Diesel Engine

Sample No: LH0122717
 Oil Type: IRVING 5W30



J.D. Irving Sussex
 39C Rte 890, Sussex Garage
 Four Corners, NB
 CA E4G 2W1
 Contact: Mike Coates
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SAMPLE INFORMATION

Sample Number	LH0122717	LH0122720	LH0122815	LH0122800
Sample Date	15 Aug 2018	19 Jun 2018	25 May 2018	12 Apr 2018
Machine Hours	3336	2268	1808	1136
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	64.1	---	63.5	---
Visc @ 100°C	cSt	11.0	10.8	10.6	11.2
Viscosity Index (VI)	Scale	164	---	157	---
Oxidation (PA)	%	103	110	124	127



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	106	116	121	117
Sulfation (PA)	%	61	61	65	68
Glycol	%	0.0	0.0	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	7
Sodium	ppm	4	4	5	6
Potassium	ppm	16	13	15	14



WEAR METALS

Iron	ppm	4	4	9	8
Copper	ppm	<1	<1	3	9
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	5
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	2177	2240	2356	2275
Magnesium	ppm	75	73	85	152
Zinc	ppm	722	734	785	785
Phosphorus	ppm	640	625	686	685
Barium	ppm	0	<1	1	6
Boron	ppm	1	2	3	11

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.

Depot: JDISUS
 Unique No: 4733803
 Signed: Kevin Marson
 Report Date: 22 Aug 2018



GRAPHS

