

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 099250-1475 - Diesel Engine

Sample No: LH0122945

Oil Type: PETRO CANADA DURON UHP 5W30



**J.D. Irving Sussex**  
 39C Rte 890, Sussex Garage  
 Four Corners, NB  
 CA E4G 2W1  
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#### SAMPLE INFORMATION

Sample Number	LH0122945	LH0122717	LH0122720	LH0122815
Sample Date	21 Sep 2018	15 Aug 2018	19 Jun 2018	25 May 2018
Machine Hours	4027	3336	2268	1808
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	---	64.1	---	63.5
Visc @ 100°C	cSt	11.1	11.0	10.8	10.6
Viscosity Index (VI)	Scale	---	164	---	157
Oxidation (PA)	%	102	103	110	124



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	100	106	116	121
Sulfation (PA)	%	66	61	61	65
Glycol	%	NEG	0.0	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	6	4	4	5
Potassium	ppm	5	16	13	15



#### WEAR METALS

Iron	ppm	5	4	4	9
Copper	ppm	2	<1	<1	3
Lead	ppm	1	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	2	1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	55	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	959	2177	2240	2356
Magnesium	ppm	1052	75	73	85
Zinc	ppm	1222	722	734	785
Phosphorus	ppm	991	640	625	686
Barium	ppm	<1	0	<1	1
Boron	ppm	15	1	2	3

#### 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:** 4759858  
**Signed:** Bill Quesnel  
**Report Date:** 12 Oct 2018



### GRAPHS

