

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C 123315-1528 - Diesel Engine

Sample No: LH0180089

Oil Type: PETRO CANADA DURON UHP E6 10W40



**Radius Recycling Canada Ltd.**  
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 Surrey, BC  
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#### SAMPLE INFORMATION

Sample Number	LH0180089	LH0246922	LH0180086	LH0180080
Sample Date	25 Oct 2023	26 Jan 2023	21 Oct 2022	03 Sep 2022
Machine Hours	6378	4992	4527	4287
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	13.3	14.0	13.8	13.9
Oxidation (PA)	%	60	59	63	61



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	49	48	53	51
Sulfation (PA)	%	51	54	54	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	3
Sodium	ppm	2	1	1	2
Potassium	ppm	0	0	<1	0



#### WEAR METALS

Iron	ppm	2	2	2	3
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	1	1	1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	58	58	55	56
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1029	1094	1006	1055
Magnesium	ppm	945	957	900	964
Zinc	ppm	1158	1189	1150	1204
Phosphorus	ppm	984	1087	1078	1077
Barium	ppm	<1	0	0	0
Boron	ppm	1	4	<1	<1

#### 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: AMISUR  
 Unique No: 5671492  
 Signed: Wes Davis  
 Report Date: 08 Nov 2023



### GRAPHS

