

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(354194)] LIEBHERR LH40C132159-1527 - Diesel Engine

Sample No: LH0209421  
 Oil Type: 49 NORTH 15W40



**National Salvage Ltd.**  
 206-33 Street N  
 Lethbridge, AB  
 CA T1H 3Z5  
 Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0209421	LH0209420	LH0209413	LH0209412
Sample Date	08 Nov 2023	18 Sep 2023	07 Jun 2023	25 Apr 2023
Machine Hours	500	250	250	3500
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	13.6	13.9	13.9	13.5
Oxidation (PA)	%	59	54	55	57



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	54	44	46	53
Sulfation (PA)	%	52	50	51	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	6
Sodium	ppm	10	1	<1	1
Potassium	ppm	2	1	0	0



#### WEAR METALS

Iron	ppm	3	2	2	3
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	1	<1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	57	57	58	57
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1082	1084	1135	1074
Magnesium	ppm	930	939	945	938
Zinc	ppm	1188	1184	1186	1176
Phosphorus	ppm	1007	1069	1102	1064
Barium	ppm	<1	0	0	0
Boron	ppm	2	2	2	3

T:  
F:

#### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NATLET  
 Unique No: 5683199  
 Signed: Wes Davis  
 Report Date: 22 Nov 2023



### GRAPHS

