

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0209422
 Oil Type: DIESEL ENGINE OIL SAE 15W40



SAMPLE INFORMATION

Sample Number	LH0209422	LH0209421	LH0209420	LH0209413
Sample Date	16 Jan 2024	08 Nov 2023	18 Sep 2023	07 Jun 2023
Machine Hours	4865	500	250	250
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	13.9	13.6	13.9	13.9
Oxidation (PA)	%	56	59	54	55

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	48	54	44	46
Sulfation (PA)	%	51	52	50	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	1	10	1	<1
Potassium	ppm	<1	2	1	0

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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	1076	1082	1084	1135
Magnesium	ppm	930	930	939	945
Zinc	ppm	1158	1188	1184	1186
Phosphorus	ppm	996	1007	1069	1102
Barium	ppm	0	<1	0	0
Boron	ppm	1	2	2	2

Depot: NATLET
 Unique No: 5710995
 Signed: Wes Davis
 Report Date: 19 Jan 2024



GRAPHS

