

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0209420
 Oil Type: 49 NORTH 15W40



SAMPLE INFORMATION

Sample Number	LH0209420	LH0209413	LH0209412	LH0209414
Sample Date	18 Sep 2023	07 Jun 2023	25 Apr 2023	19 Mar 2023
Machine Hours	250	250	3500	500
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Changed
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	13.9	13.5	13.5
Oxidation (PA)	%	54	55	57	58

T:
F:



CONTAMINATION

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

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.



WEAR METALS

Iron	ppm	2	2	3	3
Copper	ppm	<1	<1	1	1
Lead	ppm	<1	0	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	<1	1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	57	58	57	56
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1084	1135	1074	1073
Magnesium	ppm	939	945	938	942
Zinc	ppm	1184	1186	1176	1181
Phosphorus	ppm	1069	1102	1064	1065
Barium	ppm	0	0	0	0
Boron	ppm	2	2	3	2

Depot: NATLET
 Unique No: 5644885
 Signed: Wes Davis
 Report Date: 20 Sep 2023



GRAPHS

