

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C103882-1527 - Diesel Engine

Sample No: LH0261467

Oil Type: DIESEL ENGINE OIL SAE 10W30



#### SAMPLE INFORMATION

Sample Number	LH0261467	LH0247335	LH0224519	LH0214171
Sample Date	29 Jun 2023	08 Mar 2023	25 Oct 2022	20 Jan 2022
Machine Hours	9040	8400	7787	6281
Oil Hours	640	500	1506	681
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**DOMINION NICKEL ALLOYS LTD.**

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#### OIL CONDITION

Visc @ 100°C	cSt	11.3	11.1	11.1	11.1
Oxidation (PA)	%	80	72	73	29



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	90	86	78	33
Sulfation (PA)	%	64	64	61	39
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	2	1	2	2
Potassium	ppm	<1	<1	2	<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.



#### WEAR METALS

Iron	ppm	5	5	4	3
Copper	ppm	1	3	1	1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	1	2	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	66	68	62	60
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1754	1704	1743	1605
Magnesium	ppm	452	389	453	547
Zinc	ppm	1221	1092	1194	1242
Phosphorus	ppm	1067	941	1081	1074
Barium	ppm	0	0	0	0
Boron	ppm	46	52	41	73

Depot: DOMBUR  
Unique No: 5607371  
Signed: Wes Davis  
Report Date: 17 Jul 2023



### GRAPHS

