

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C103882-1527 - Diesel Engine

Sample No: LH0178204

Oil Type: DIESEL ENGINE OIL SAE 10W30



#### SAMPLE INFORMATION

Sample Number	LH0178204	LH0261467	LH0247335	LH0224519
Sample Date	27 Oct 2023	29 Jun 2023	08 Mar 2023	25 Oct 2022
Machine Hours	9607	9040	8400	7787
Oil Hours	500	640	500	1506
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	11.5	11.3	11.1	11.1
Oxidation (PA)	%	52	80	72	73



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	48	90	86	78
Sulfation (PA)	%	53	64	64	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	6
Sodium	ppm	2	2	1	2
Potassium	ppm	1	<1	<1	2

#### 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	5	5	4
Copper	ppm	<1	1	3	1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	<1	1	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	25	66	68	62
Nickel	ppm	0	0	0	0
Titanium	ppm	7	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1473	1754	1704	1743
Magnesium	ppm	556	452	389	453
Zinc	ppm	1116	1221	1092	1194
Phosphorus	ppm	962	1067	941	1081
Barium	ppm	<1	0	0	0
Boron	ppm	97	46	52	41

Depot: DOMBUR

Unique No: 5681891

Signed: Wes Davis

Report Date: 16 Nov 2023

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### GRAPHS

