

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C123508-1527 - Diesel Engine

Sample No: LH0175672

Oil Type: DIESEL ENGINE OIL SAE 30



SAMPLE INFORMATION

Sample Number	LH0175672	LH0175669	LH0175670	LH0175663
Sample Date	16 Nov 2023	15 Jun 2023	15 Jun 2023	08 Mar 2023
Machine Hours	5000	4250	0	4000
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DOMINION NICKEL ALLOYS LTD.

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OIL CONDITION

Visc @ 100°C	cSt	11.0	10.7	10.7	10.6
Oxidation (PA)	%	61	59	60	64



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	70	52	56	66
Sulfation (PA)	%	55	53	53	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	7	7	7
Sodium	ppm	2	1	1	1
Potassium	ppm	<1	<1	<1	<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	4	2	2	3
Copper	ppm	2	<1	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	40	65	64	70
Nickel	ppm	0	0	0	<1
Titanium	ppm	9	<1	<1	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1634	1763	1632	1810
Magnesium	ppm	541	427	398	443
Zinc	ppm	1198	1158	1073	1194
Phosphorus	ppm	1035	1070	999	1092
Barium	ppm	<1	0	0	0
Boron	ppm	73	112	94	78

Depot: DOMBUR
Unique No: 5682134
Signed: Wes Davis
Report Date: 17 Nov 2023



GRAPHS

