

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C123508-1527 - Diesel Engine

Sample No: LH0178196
 Oil Type: DIESEL ENGINE OIL SAE 30



DOMINION NICKEL ALLOYS LTD.
 834 APPLEBY LINE
 BURLINGTON, ON
 CA L7L 2Y7
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Sample Information

Sample Number	LH0178196	LH0175672	LH0175669	LH0175670
Sample Date	07 Mar 2024	16 Nov 2023	15 Jun 2023	15 Jun 2023
Machine Hours	5678	5000	4250	0
Oil Hours	500	0	0	0
Oil Changed	Changed	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	11.0	11.0	10.7	10.7
Oxidation (PA)	%	57	61	59	60



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	70	70	52	56
Sulfation (PA)	%	55	55	53	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	9	7	7
Sodium	ppm	2	2	1	1
Potassium	ppm	2	<1	<1	<1



Wear Metals

Iron	ppm	3	4	2	2
Copper	ppm	1	2	<1	1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	1	1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	20	40	65	64
Nickel	ppm	<1	0	0	0
Titanium	ppm	6	9	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1496	1634	1763	1632
Magnesium	ppm	612	541	427	398
Zinc	ppm	1146	1198	1158	1073
Phosphorus	ppm	1001	1035	1070	999
Barium	ppm	<1	<1	0	0
Boron	ppm	75	73	112	94

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.

Depot: DOMBUR
 Unique No: 5763620
 Signed: Wes Davis
 Report Date: 22 Apr 2024



Graphs

