

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C103882-1527 - Diesel Engine

Sample No: LH0289675
 Oil Type: DIESEL ENGINE OIL SAE 10W30



Sample Information

Sample Number	LH0289675	LH0224451	LH0178204	LH0261467
Sample Date	18 Apr 2024	16 Nov 2023	27 Oct 2023	29 Jun 2023
Machine Hours	10300	7018	9607	9040
Oil Hours	500	737	500	640
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DOMINION NICKEL ALLOYS LTD.
 834 APPLEBY LINE
 BURLINGTON, ON
 CA L7L 2Y7
 Contact: Trevor Taylor
 trevor@domnickel.com
 T: (905)639-9939
 F: (905)639-3788



Oil Condition

Visc @ 100°C	cSt	11.4	11.2	11.5	11.3
Oxidation (PA)	%	64	70	52	80



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	77	83	48	90
Sulfation (PA)	%	61	59	53	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	6	6
Sodium	ppm	14	2	2	2
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	4	2	5
Copper	ppm	2	2	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	36	59	25	66
Nickel	ppm	<1	0	0	0
Titanium	ppm	5	<1	7	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1512	1771	1473	1754
Magnesium	ppm	563	487	556	452
Zinc	ppm	1170	1243	1116	1221
Phosphorus	ppm	1009	1043	962	1067
Barium	ppm	<1	<1	<1	0
Boron	ppm	120	64	97	46

Depot: DOMBUR
Unique No: 5763624
Signed: Wes Davis
Report Date: 22 Apr 2024



Graphs

