

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C103882-1527 - Swing Drive

Sample No: LH0286880

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH0286880	LH0261465	LH0247337	LH0224520
Sample Date	18 Apr 2024	29 Jun 2023	08 Mar 2023	25 Oct 2022
Machine Hours	10300	9040	8400	7787
Oil Hours	1000	640	613	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

DOMINION NICKEL ALLOYS LTD.

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Contact: Trevor Taylor
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Oil Condition

Visc @ 40°C	cSt	142	142	139	131
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Contamination

Water	%	0.569	NEG	NEG	NEG
Silicon	ppm	6	6	7	4
Sodium	ppm	<1	1	1	2
Potassium	ppm	<1	<1	2	3



Wear Metals

Iron	ppm	279	146	206	361
Copper	ppm	45	32	80	240
Lead	ppm	<1	<1	2	5
Tin	ppm	1	<1	1	2
Aluminum	ppm	0	0	<1	0
Chromium	ppm	3	1	2	4
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	2	1	2	3
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	5	4	4	6
Magnesium	ppm	1	1	2	2
Zinc	ppm	16	6	9	12
Phosphorus	ppm	548	616	631	628
Barium	ppm	0	0	0	0
Boron	ppm	3	4	5	6

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. Sulfur ppm levels are abnormally low. The oil is no longer serviceable due to the presence of contaminants.

Depot: DOMBUR
Unique No: 5763838
Signed: Kevin Marson
Report Date: 24 Apr 2024



Graphs

