

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C103882-1527 - Left Final Drive

Sample No: LH0178241

Oil Type: KENDALL NS-MP HYPOID GEAR 80W90



SAMPLE INFORMATION

Sample Number	LH0178241	LH0247339	LH0235010	LH0214174
Sample Date	04 Jul 2023	08 Mar 2023	25 Oct 2022	20 Jan 2022
Machine Hours	9040	8400	7787	6281
Oil Hours	640	613	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

DOMINION NICKEL ALLOYS LTD.

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OIL CONDITION

Visc @ 40°C	cSt	138	136	129	132
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CONTAMINATION

Silicon	ppm	8	8	6	6
Sodium	ppm	2	2	2	2
Potassium	ppm	1	2	4	3



WEAR METALS

Iron	ppm	18	23	36	55
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	1	2	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	6	5	8	13
Magnesium	ppm	2	2	2	4
Zinc	ppm	7	5	8	10
Phosphorus	ppm	615	635	610	599
Barium	ppm	0	0	<1	<1
Boron	ppm	2	3	6	9

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. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: DOMBUR

Unique No: 5607485

Signed: Kevin Marson

Report Date: 19 Jul 2023



GRAPHS

