

LIEBHERR

CONSTRUCTION EQUIPMENT



030095 - Left Final Drive

Sample No: LH0178223

Oil Type: KENDALL NS-MP HYPOID GEAR 80W90



SAMPLE INFORMATION

Sample Number	LH0178223	LH0235016	LH0195433	---
Sample Date	28 Sep 2023	27 Oct 2022	20 Apr 2021	---
Machine Hours	18600	17569	15200	---
Oil Hours	1000	1000	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

DOMINION NICKEL ALLOYS LTD.

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OIL CONDITION

Visc @ 40°C	cSt	102	87.8	94.5	---
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CONTAMINATION

Silicon	ppm	7	6	5	---
Sodium	ppm	1	2	3	---
Potassium	ppm	<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	77	99	93	---
Copper	ppm	3	4	4	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	7	10	13	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	1	2	2	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	<1	1	<1	---
Manganese	ppm	<1	2	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	25	31	28	---
Magnesium	ppm	2	3	5	---
Zinc	ppm	130	166	148	---
Phosphorus	ppm	527	529	493	---
Barium	ppm	<1	0	0	---
Boron	ppm	4	6	8	---

Depot: DOMBUR

Unique No: 5681995

Signed: Wes Davis

Report Date: 16 Nov 2023



GRAPHS

