

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934CEW 031290-027 - Left Final Drive

Sample No: LH0178200

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH0178200	LH0261471	LH0224452	LH0195429
Sample Date	02 Apr 2024	21 Jun 2023	16 May 2022	16 Jun 2021
Machine Hours	18000	17080	16000	14940
Oil Hours	1000	1080	560	1000
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 @ 40°C	cSt	125	112	117	115
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 6	● 7	● 6	● 2
Sodium	ppm	● 2	● 2	● 2	● <1
Potassium	ppm	● 3	● 3	● 2	● <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	● 40	● 43	● 52	● 23
Copper	ppm	● 2	● 3	● 3	● 3
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 4	● 4	● 5	● 2
Molybdenum	ppm	● 0	● <1	● <1	● <1
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	● 0	● <1	● 0	● 0
Silver	ppm	● 0	● 0	● 0	● <1
Manganese	ppm	● <1	● 1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



Additives

Calcium	ppm	● 11	● 14	● 16	● 18
Magnesium	ppm	● 3	● 2	● 4	● 3
Zinc	ppm	● 36	● 63	● 49	● 15
Phosphorus	ppm	● 533	● 558	● 616	● 700
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 8	● 6	● 10	● 37

Depot: DOMBUR

Unique No: 5763839

Signed: Wes Davis

Report Date: 22 Apr 2024



Graphs

