

LIEBHERR

CONSTRUCTION EQUIPMENT



954-4 - Right Final Drive

Sample No: LH0260182

Oil Type: SAE 75W90



Gerdau - Mandak Metal Processors Ltd.,
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 Selkirk, MB
 CA R1A 2B3
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SAMPLE INFORMATION

Sample Number	LH0260182	LH0199528	---	---
Sample Date	02 Aug 2023	07 Apr 2023	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	MARGINAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	99.6	91.1	---	---
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CONTAMINATION

Water	%	---	0.199	---	---
Silicon	ppm	417	318	---	---
Sodium	ppm	24	25	---	---
Potassium	ppm	35	28	---	---



WEAR METALS

PQ		---	119	---	---
Iron	ppm	1114	940	---	---
Copper	ppm	101	49	---	---
Lead	ppm	8	6	---	---
Tin	ppm	2	3	---	---
Aluminum	ppm	122	103	---	---
Chromium	ppm	12	12	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	10	10	---	---
Titanium	ppm	8	7	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	30	26	---	---
Vanadium	ppm	2	2	---	---



ADDITIVES

Calcium	ppm	720	768	---	---
Magnesium	ppm	210	190	---	---
Zinc	ppm	60	60	---	---
Phosphorus	ppm	1053	1457	---	---
Barium	ppm	3	2	---	---
Boron	ppm	85	179	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Lead ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MANSEL
 Unique No: 5631960
 Signed: Kevin Marson
 Report Date: 29 Aug 2023



GRAPHS

