

# 053987-1650 - Right Final Drive

Sample No: LH0274053

Oil Type: GEAR OIL SAE 75W90

## **SAMPLE INFORMATION**

Sample Number	LH0274053	LH0250893	LH0250891	LH0227227
Sample Date	02 Oct 2023	31 Jan 2023	31 Jan 2023	19 Sep 2022
Machine Hours	2037	1076	1076	540
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL
OIL CONDITION				
Visc @ 40°C cSt	<mark>)</mark> 232	179	173	0 192
<b>**</b>				

Silicon	ppm	<b>0</b> 3173	○ <1	235	04
Sodium	ppm	0 172	02	0 12	6
Potassium	ppm	280	0	28	04

WEA	R METALS	5			
PQ		2438			
Iron	ppm	<b>5650</b>	213	203	0 133
Copper	ppm	<b>3</b>	○ <1	◯ <1	◯ <1
Lead	ppm	01	0	◯ <1	◯ <1
Tin	ppm	0 🔘	0	0	0
Aluminum	ppm	0 777	○ <1	76	01
Chromium	ppm	<b>7</b> 4	3	3	3
Molybdenum	ppm	02	○ <1	◯ <1	0
Nickel	ppm	8 🔘	○ <1	0 1	<1
Titanium	ppm	<u> </u>	0	5	<1
Silver	ppm	<1	<1	0	4
Manganese	ppm	<u> </u>	03	03	2
Vanadium	ppm	2	0	<1	0

# ADDITIVES

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Calcium	ppm	<b>O</b> 1593	8	157	13
Magnesium	ppm	<u> </u>	○ <1	23	<1
Zinc	ppm	0 18	5	0 16	18
Phosphorus	ppm	0 2067	2333	2177	1430
Barium	ppm	09	01	3	14
Boron	ppm	0 11	02	22	6





#### Delsan - American Iron and Metal 2187 Montee Masson Laval, QC CA H7B 0A6 Contact: MANNY MARQUES

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### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for topup/fill. We recommend an early resample to monitor this condition.Chromium and iron ppm levels are severe. PQ levels are severe. Titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 80W140 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

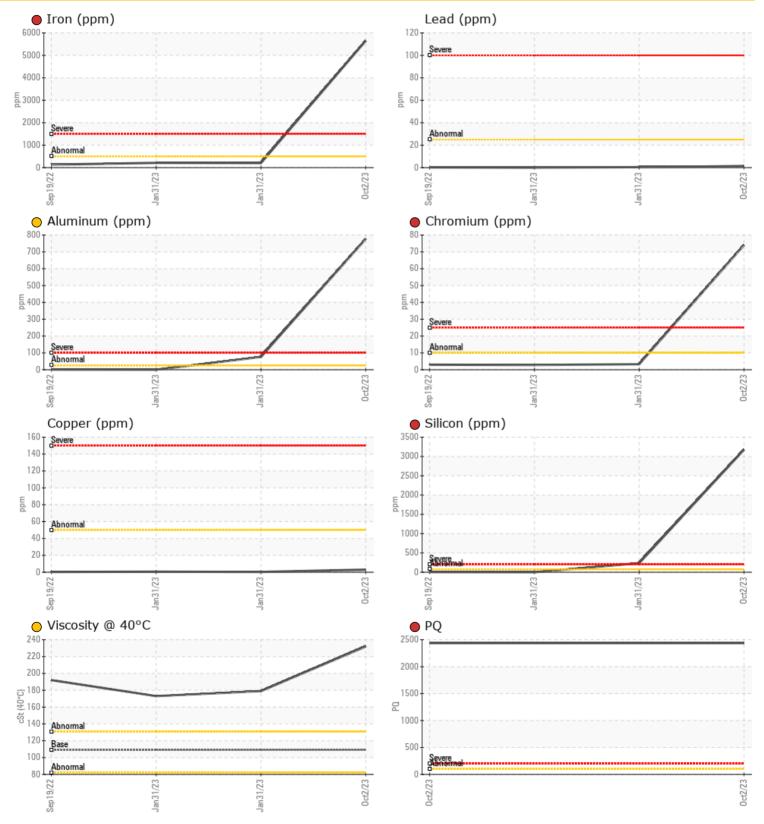
Depot:	DEL782MON
Unique No:	5657828
Signed:	Kevin Marson
Report Date:	13 Oct 2023





GRAPHS

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Submitted By: Eric Leblond