

053987-1650 - Left Final Drive

Sample No: LH0274271

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Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	LH0274271	LH0250890	LH0227226	
Sample Date	02 Oct 2023	31 Jan 2023	19 Sep 2022	
Machine Hours	2037	1076	540	
Oil Hours	0	0	0	
Oil Changed	Changed	Changed	Changed	
Sample Status	SEVERE	NORMAL	NORMAL	
	N			
Visc @ 40°C cSt	<u> </u>	168	0 194	
*				

	NTAMINA	TION			
Silicon	ppm	2963	0 153	0 4	
Sodium	ppm	0 162	0 8	6	
Potassium	ppm	258	20	3	

WEA	IR META	LS			
PQ		2281			
Iron	ppm	● 5943	0 163	0 141	
Copper	ppm	3	◯ <1	◯ <1	
Lead	ppm	0 2	○ <1	0	
Tin	ppm	0	0	0	
Aluminum	ppm	 719	51	0 1	
Chromium	ppm	0 77	3	0 4	
Molybdenum	ppm	3	○ <1	0	
Nickel	ppm	 10	0 1	1	
Titanium	ppm	0 48	3	<1	
Silver	ppm	<1	0	0	
Manganese	ppm	<u> </u>	03	2	
Vanadium	ppm	2	<1	0	

0 **ADDITIVES** Calcium ppm 0 1381 0 113 13 Magnesium 0 192 0 19 ppm <1 Zinc 0 16 0 17 17 ppm Phosphorus 0 2091 0 2125 146 ppm Barium ppm 8 🔘 03 14 Boron 013 ppm ◯ 34





Delsan - American Iron and Metal 2187 Montee Masson Laval, QC CA H7B 0A6 Contact: MANNY MARQUES mmargues@delsan-aim.com

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 and nickel 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 (AI) 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:	5657760
Signed:	Kevin Marson
Report Date:	12 Oct 2023

Report Id: DEL782MON [WCAMIS] 02588694 (Generated: 10/12/2023 17:16:19) Rev: 1

Submitted By: Eric Leblond

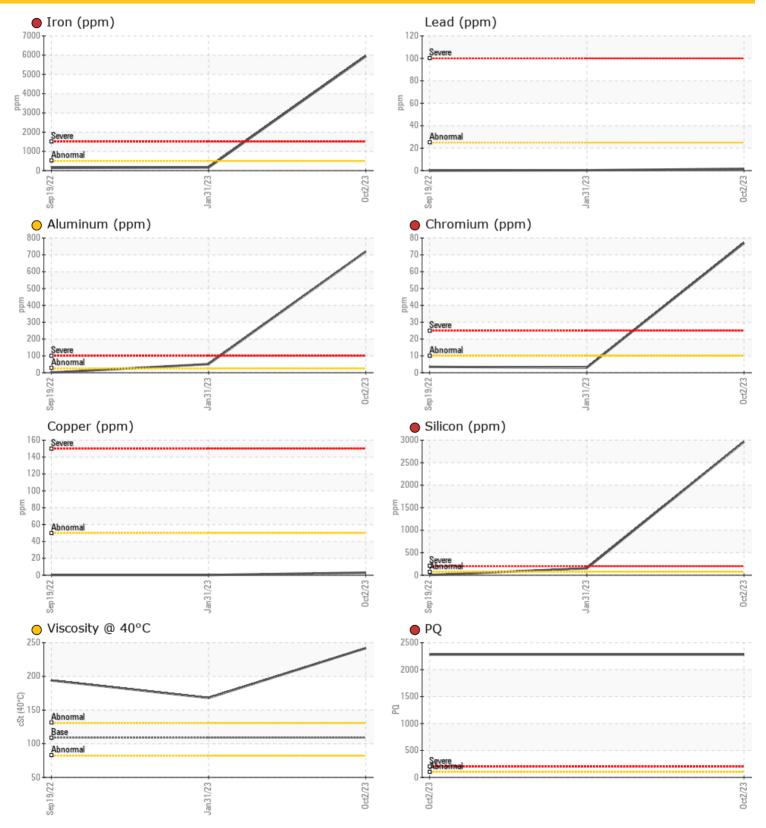
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GRAPHS

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Submitted By: Eric Leblond