**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

Machine Id

092945
Component
Front Right Final Drive

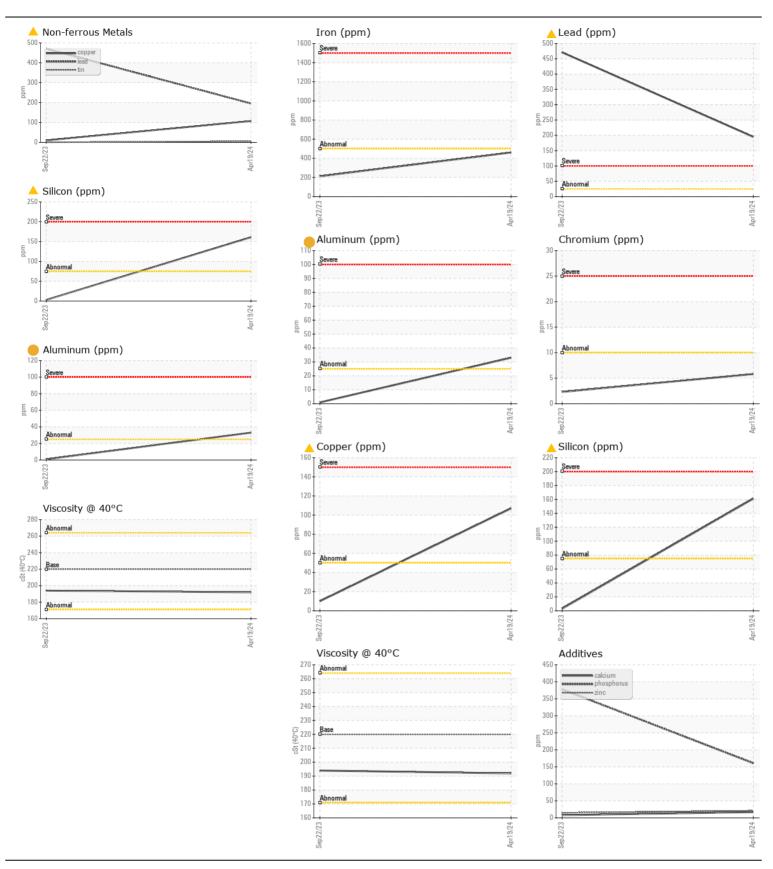
RECOMMENDATION  We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0851987	WC0811318	
	Sample Date		Client Info		19 Apr 2024	22 Sep 2023	
	Machine Age	hrs	Client Info		488	150	
	Oil Age	hrs	Client Info		438	150	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>500	460	212	
Copper and lead ppm levels are abnormal. Aluminum ppm levels are noted. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185(m)		6	2	
	Nickel	ppm	ASTM D5185(m)		2	<1	
	Titanium	ppm	ASTM D5185(m)		2	0	
	Silver	ppm	ASTM D5185(m)		0	<1	
	Aluminum	ppm	ASTM D5185(m)	>25	<b>3</b> 3	<1	
	Lead	ppm	ASTM D5185(m)	>25	<u> </u>	<b>▲</b> 471	
	Copper	ppm	ASTM D5185(m)	>50	<u> </u>	10	
	Tin	ppm	ASTM D5185(m)	>10	5	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>75	<u> </u>	3	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.	Potassium	ppm	ASTM D5185(m)	>20	10	<1	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		9	5	
	Boron	ppm	ASTM D5185(m)	50	6	8	
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Barium	ppm	ASTM D5185(m)		3	4	
	Molybdenum	ppm	ASTM D5185(m)	15	0	0	
	Manganese	ppm	ASTM D5185(m)		5	4	
	Magnesium	ppm	ASTM D5185(m)	50	5	2	
	Calcium	ppm	ASTM D5185(m)	50	17	8	
	Phosphorus	ppm	ASTM D5185(m)	350	161	378	
	Zinc	ppm	ASTM D5185(m)	100	21	15	
	016	10 10 100	ACTM DE10E(m)	12500	4282	4687	
	Sulfur	ppm	ASTM D5185(m)	12300	4202	4007	

Visc @ 40°C

cSt

ASTM D7279(m) 220

194





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WC0851987 : 02631026 Unique Number : 5772179 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 23 Apr 2024 **Tested** : 23 Apr 2024

: 23 Apr 2024 - Kevin Marson Diagnosed

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

C.G. EQUIPMENT

7367 Wellington Rd. 30, Unit A Guelph, ON

CA NOM 2TO Contact: CG Equipment CG Guelph cory@cgequipment.com

T: (519)826-0550 F: (519)837-2055