**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 



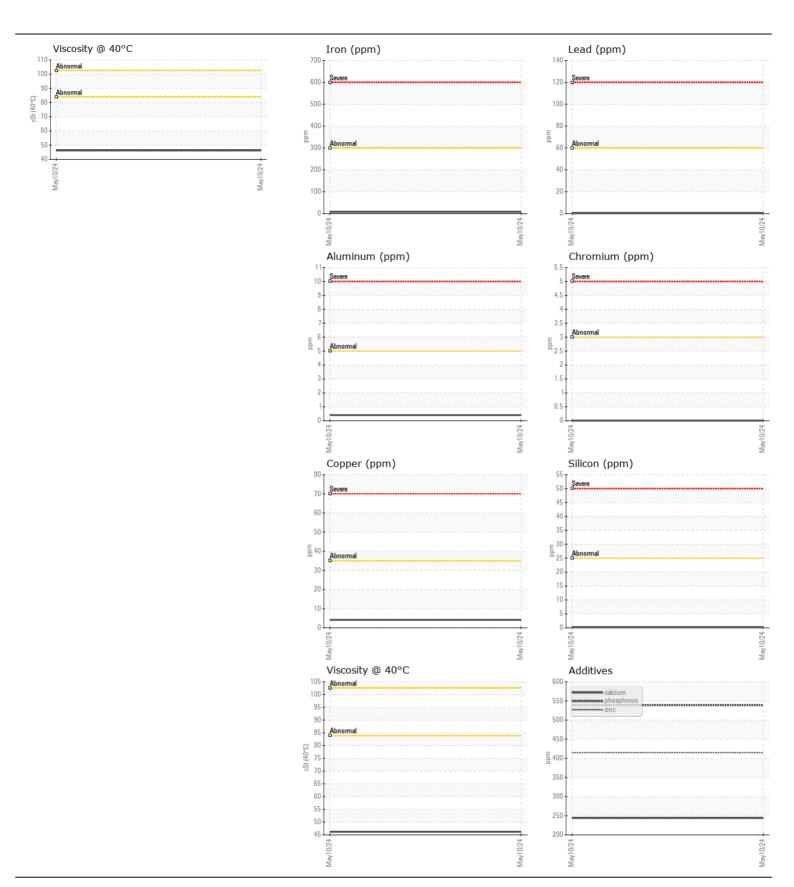
## Machine Id I IFBHFRR HS895 188244

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289545		
Sample Date		Client Info		10 May 2024		
Machine Age	hrs	Client Info		21278		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>300	7		
Chromium	ppm	ASTM D5185(m)	>3	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>60	<1		
Copper	ppm	ASTM D5185(m)	>35	4		
Tin	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	<1		
Potassium	ppm	ASTM D5185(m)	>20	16		
Water		WC Method	>0.2	NEG		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		7		
Boron	ppm	ASTM D5185(m)		46		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		5		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		80		
Calcium	ppm	ASTM D5185(m)		244		
Phosphorus	ppm	ASTM D5185(m)		539		
Zinc	ppm	ASTM D5185(m)		415		
Sulfur	ppm	ASTM D5185(m)		4043		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal  Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water  Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Sand/Dirt scalar Sand/Dirt scalar Sodium ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus Zinc ppm	Sample Number Sample Date Machine Age Oil Age hrs Client Info Oil Age hrs Client Info Oil Changed Filter Age Oil Changed Filter Changed Chromium Chromium Ppm ASTM D5185(m) Nickel Ppm ASTM D5185(m) Nickel Ppm ASTM D5185(m) Aluminum Ppm ASTM D5185(m) Lead Ppm ASTM D5185(m) Copper Ppm ASTM D5185(m) Vanadium Ppm ASTM D5185(m) Visual*  Silicon Potassium Ppm ASTM D5185(m) Water Silt Scalar Visual* Sand/Dirt Appearance Scalar Visual* Sand/Dirt Appearance Scalar Visual* Sodium Ppm ASTM D5185(m)	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Client Info Filter Age hrs Client Info Client Info Filter Age hrs Client Info Client Info Client Info Filter Changed Client Info Sample Status  Iron ppm ASTM D5185(m) Silver ppm ASTM D5185(m) Silver ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) ASTM D5185(m) Silver ASTM D5185(m) Silver ppm ASTM D5185(m) ASTM D5185(m) Silver ASTM D5185(m)	Sample Number         Client Info         LH0289545           Sample Date         Client Info         10 May 2024           Machine Age         hrs         Client Info         21278           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         N/A           Sample Status         NA         NORMAL           Iron         ppm         ASTM D5185(m)         >300         7           Chromium         ppm         ASTM D5185(m)         >30         7           Chromium         ppm         ASTM D5185(m)         >30         0           Nickel         ppm         ASTM D5185(m)         >10         <1           Titanium         ppm         ASTM D5185(m)         >60         <1           Aluminum         ppm         ASTM D5185(m)         >5         <1           Lead         ppm         ASTM D5185(m)         >5         <1           Copper         ppm         ASTM D5185(m)         >5         0           Vanadium         ppm         ASTM D5185(m)         >5         0           Vanadium         ppm	Sample Number         Client Info         LH0289545            Sample Date         Client Info         10 May 2024            Machine Age         hrs         Client Info         21278            Oil Age         hrs         Client Info         0            Filter Age         hrs         Client Info         Changed            Filter Changed         Client Info         N/A            Sample Status         NORMAL            Iron         ppm         ASTM D5185(m)         >300         7           Chromium         ppm         ASTM D5185(m)         >3         0            Nickel         ppm         ASTM D5185(m)         >10         <1            Titanium         ppm         ASTM D5185(m)         >10             Aluminum         ppm         ASTM D5185(m)         >6         <1            Lead         ppm         ASTM D5185(m)         >60         <1            Lead         ppm         ASTM D5185(m)         >5         0            Vanadium         ppm         ASTM D5185(m

Visc @ 40°C

ASTM D7279(m)

46.2





ISO 17025:2017
Accredited
Laboratory

**Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: LH0289545 **Received**: 26 Jun 2024

 7025:2017
 Lab Number
 : 02644206
 Tested
 : 26 Jun 2024

 Gredited poratory
 Unique Number
 : 5801745
 Diagnosed
 : 27 Jun 2024 - Kevin Marson

 Test Package
 : MOB 1

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.

HIGGS & HIGGS

RR # 4 ST THOMAS, ON CA N5P 3S8

Contact: Bernie Higgs

T: (519)631-4095 F: (519)631-2745