WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

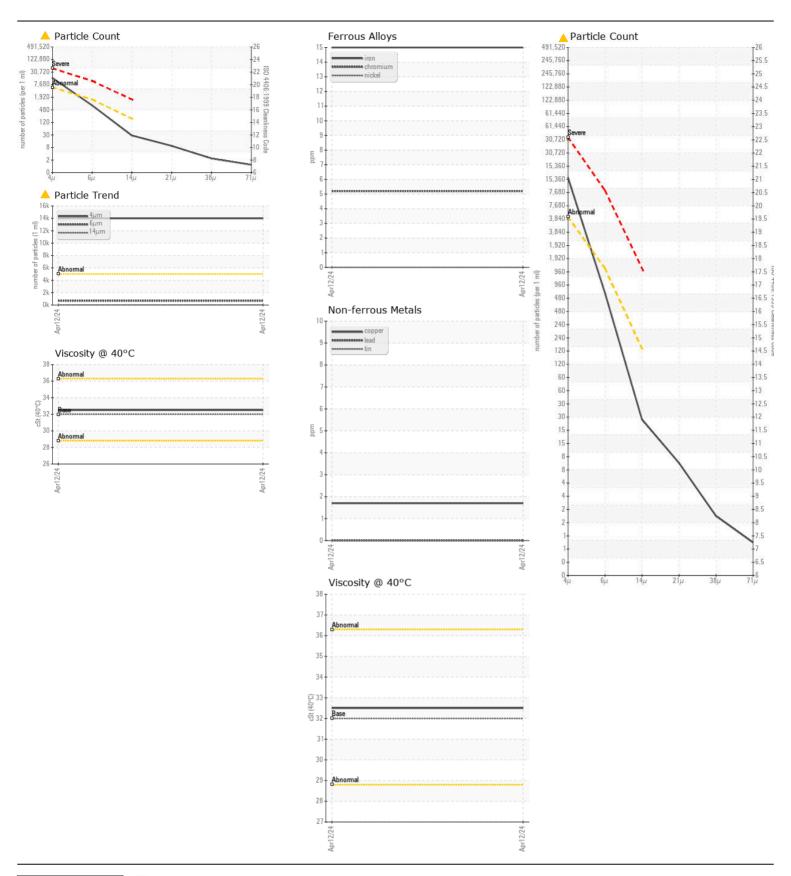
NORMAL

Machine Id

EX0036

Component Hydraulic System

Potassium ppm ASTM D5185(m) >20 0 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 A19990 Particles >54µm ASTM D7647 >1300 683 Particles >14µm ASTM D7647 >1300 683 Particles >21µm ASTM D7647 >1300 683 Particles >21µm ASTM D7647 >140 8 Particles >71µm ASTM D7647 >40	AW HYDRAULIC OIL ISO 32 (GAL)							
Marche March Mar	RECOMMENDATION	Test	HOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. We recommend and regiver sample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is considered that the contaminant (s) can be reduced to acceptable levels. Sample Date Client Info 0 0 0 0 0 0 0 0 0	We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is		COM		LITTIOTION		,	
Machine Age Install Mac		•						
CGENERIC) AW HYDRAULIC OIL ISO 32. Please confirm. Filter Age hrs Client Info 0			hrs					
Filter Age No Client Info Changed Client Info Changed Client Info Changed Client Info NA Client Info NA		ŭ						
Oil Changed Client Info NA ARNORMAL	(GENERIC) AW HYDRAULIC OIL 130 32. Flease collilli.					_		
Filter Changed Client Info NA Sample Status Sample S		•				-		
Note Particles Particles				Client Info				
All component wear rates are normal.		•				ABNORMAL		
All component wear rates are normal.	WFAR	Iron	maa	ASTM D5185(m)	>20	15		
All component wear rates are normal. Nicke	W = 7 (1 t			. ,				
Titanium ppm ASTM D585m 0	All component wear rates are normal.			()				
Silver ppm ASTM D585 0 0				. ,				
Aluminum ppm ASTM D585im >10 <1				. ,				
Lead ppm ASTM DSISS m >10 0				. , ,	>10	-		
Copper				\ /				
Tin		Copper		. ,		2		
White Metal Yellow Metal Scalar Visual* NONE NOE NONE NOE		• •		ASTM D5185(m)	>10	0		
Yellow Metal Scalar Visual* NONE		Vanadium	ppm	ASTM D5185(m)		0		
Silicon ppm ASTM D5185(m) > 20 1		White Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5(85(m) >20 0 Water W.C Method >0.1 NEG Particles >4μm ASTM D7647 >5000 A13990 Particles >5μm ASTM D7647 >1300 683 Particles >14μm ASTM D7647 >1300 683 Particles >14μm ASTM D7647 >400 8 Particles >21μm ASTM D7647 >40 8 Particles >31μm ASTM D7647 >40 8 Particles >31μm ASTM D7647 >40 8 Particles >31μm ASTM D7647 >40 8 Particles >71μm ASTM D7647 >40 8		Yellow Metal	scalar	Visual*	NONE	NONE		
Water WC Method >0.1 NEG	CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	1		
Particles >4µm ASTM D7647 >5000		Potassium	ppm	ASTM D5185(m)	>20	0		
Particles >4\text{um}	,	Water		WC Method	>0.1	NEG		
Particles >14μm	present in the oil.	Particles >4µm		ASTM D7647	>5000	13990		
Particles >21µm		Particles >6µm		ASTM D7647	>1300	683		
Particles >38μm Particles >38μm Particles >71μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 1 Oil Cleanliness ISO 4406 (c) 5/19/17/14 ≥2/17/12 Silt scalar Visual* NONE NONE NONE Sand/Dirt scalar Visual* NONE NONE NONE Appearance scalar Visual* NONE NORML NORM		Particles >14µm		ASTM D7647	>160	25		
Particles > 71 μm		Particles >21µm		ASTM D7647	>40	8		
Oil Cleanliness		Particles >38µm		ASTM D7647	>10	2		
Silt Scalar Visual* NONE NONE Debris Scalar Visual* NONE NONE Sand/Dirt Scalar Visual* NONE NONE Sand/Dirt Scalar Visual* NONE NONE Sand/Dirt Scalar Visual* NORML NORML Scalar Visual* NORML NORML Scalar Visual* NORML NORML Scalar Visual* NORML Scalar NORML Scalar Visual* NORML Scalar Scalar NORML Scalar		Particles >71µm				1		
Debris Scalar Visual* NONE NONE NONE NONE Sand/Dirt Scalar Visual* NONE NORML NORM		Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/17/12		
Sand/Dirt scalar Visual* NONE NONE NORML		Silt	scalar	Visual*	NONE			
Appearance Scalar Visual* NORML NORM		Debris	scalar					
Codor Scalar Visual* NORML N		Sand/Dirt						
Emulsified Water scalar Visual* >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185(m) 5 <1 Boron ppm ASTM D5185(m) 5 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 25 3 Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Sulfur ppm ASTM D5185(m) 2500 947		Appearance	scalar	Visual*	NORML	NORML		
Sodium ppm ASTM D5185(m) Companies Sodium ppm ASTM D5185(m) Sodium Sodium ppm ASTM D5185(m) Sodium Sodium Ppm ASTM D5185(m) Sodium								
Boron ppm ASTM D5185(m) 5 <1 Barium ppm ASTM D5185(m) 5 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 25 3 Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 2500 947		Emulsified Water	scalar	Visual*	>0.1	NEG		
The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. Barium ppm ASTM D5185(m) 5 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 25 3 Magnesium ppm ASTM D5185(m) 25 3 Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 370 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
reduced to acceptable levels. Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 25 3 Magnesium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947	The oil is still serviceable provided that the contaminant(s) can be	Boron	ppm	. ,	5	<1		
Manganese ppm ASTM D5185(m) 5 0 Magnesium ppm ASTM D5185(m) 25 3 Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947		Barium	ppm	ASTM D5185(m)	5	0		
Magnesium ppm ASTM D5185(m) 25 3 Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947		Molybdenum	ppm	, ,	5			
Calcium ppm ASTM D5185(m) 200 52 Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947			ppm	. ,				
Phosphorus ppm ASTM D5185(m) 300 330 Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947		_	ppm	, ,				
Zinc ppm ASTM D5185(m) 370 405 Sulfur ppm ASTM D5185(m) 2500 947			ppm	(/				
Sulfur ppm ASTM D5185(m) 2500 947			ppm					
				١ /				
Visc @ 40°C cSt ASTM D7279(m) 32 32 5								
7.30 @ 70 0 COL NOTHIDIETO(III) 02 32.3		Visc @ 40°C	cSt	ASTM D7279(m)	32	32.5		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02630977

: GFL0113124 Unique Number : 5772130

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: PrtCount)

: 23 Apr 2024 : 23 Apr 2024

: 23 Apr 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 582 - Nanaimo 3469 Aqua Terra Rd., Cassidy, BC CA VOR 1H0 Contact: GFL Tech wcgfldemo@gmail.com

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.

F: Contact/Location: GFL Tech - GFL582

T: