WEAR CONTAMINATION FLUID CONDITION

NORMAL MARGINAL ABNORMAL

[1238449] 114018

Component

RECOMMENDATION	Toot	LIONA	Motherd	Linait/Alas-	C	Llieterrid	I Baka
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	Histor
	Sample Number		Client Info		GFL0028551 06 Mar 2024		
	Sample Date Machine Age	hro	Client Info		594		
	ū	hrs	Client Info		0		
	Oil Age Filter Age	hrs	Client Info		0		
	Oil Changed	hrs	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Chefft iiilo		ABNORMAL		
<u></u>							
VEAR	Iron	ppm	ASTM D5185(m)	>90	47		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	1		
	Nickel	ppm	ASTM D5185(m)	>2	1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)	>2	<1		
	Aluminum	ppm	ASTM D5185(m)	>20	7		
	Lead	ppm	ASTM D5185(m)	>40	3		
	Copper	ppm	ASTM D5185(m)	>330	27		
	Tin	ppm	ASTM D5185(m)	>15	2		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring.	Silicon	ppm	ASTM D5185(m)	>25	46		
	Potassium	ppm	ASTM D5185(m)	>20	18		
	Fuel	%	ASTM D7593*	>3.0	▲ 1.1		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>6	0.1		
	Nitration	Abs/cm	ASTM D7624*	>20	8.2		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		6		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185(m)	0	39		
oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185(m)		5		
	Molybdenum	ppm	ASTM D5185(m)		49		
	Manganese	ppm	ASTM D5185(m)		5		
	Magnesium	ppm	ASTM D5185(m)		569		
	Calcium	ppm	ASTM D5185(m)	1070	1554		
	Phosphorus	ppm	ASTM D5185(m)		730		
	Zinc	ppm	ASTM D5185(m)	1270	843		
	Sulfur	ppm	ASTM D5185(m)	2060	1984		

Base Number (BN) mg KOH/g ASTM D2896* 9.8

ASTM D7279(m) 15.4

Visc @ 100°C cSt

8.95

9.8





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02620748

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0028551 Unique Number : 5737858

Received **Tested** Diagnosed

: 08 Mar 2024 : 11 Mar 2024

: 11 Mar 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 207 - Pickering SW 1034 TOY AVENUE, PICKERING YARD PICKERING, ON CA L1W 3P1 Contact: Ian Patton

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.

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