WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id **813075**

Component Diesel Engine

CERTIFIED	SPECTRA	XTREME	15W40 CK4	(GAL)
				- 3

Sample Number Client Info Client Info Client Info Care No FLOSTESS GELOSTE403 Client Info Care No FLOSTESS GELOSTE403 Client Info Care No FLOSTESS Client Info Changed Client Info Changed Client Info Changed Chang	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 26 Peb 2024 10 Apr 2025	Resample at the next service interval to monitor	Sample Number		Client Info		GFL0105895	GFL0076463	
	rocampio at the next convice mental to memor.	Sample Date		Client Info		28 Feb 2024	10 Apr 2023	
Filter Age		Machine Age	kms	Client Info		42443	830	
		Oil Age	kms	Client Info		0	348	
Filter Changed Client Info N/A Changed NORMAL		Filter Age	kms	Client Info		0	348	
Nome		Oil Changed		Client Info		Changed	Changed	
Iron		Filter Changed		Client Info		N/A	Changed	
Chromium ppm ASTM D5185im >20 <1 0		Sample Status				NORMAL	NORMAL	
Nickel ppm ASTM DSIRSIN 0 0 0 0 0 0 0 0 0	VEAR	Iron	ppm	ASTM D5185(m)	>100	14	12	
Nickel ppm ASTM D585m >4 <1 <1 <	Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	<1	0	
Silver	notal lovolo and typical for a non-component producing in:	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Aluminum ppm ASTM D5185/m >20 5 3		Titanium	ppm	ASTM D5185(m)		0	<1	
Lead		Silver	ppm	ASTM D5185(m)	>3	0	0	
Copper ppm ASTM D5185(m) >330 1 2 Tin ppm ASTM D5185(m) >15 <1 <1 Vanadium ppm ASTM D5185(m) >25 6 5 There is no indication of any contamination in the oil. Potassium ppm ASTM D5185(m) >20 2 8 Fuel WC Method >5 <1.0 <1.0 Water WC Method >5 <1.0 <1.0 Water WC Method NEG NEG NEG Glycol WC Method ASTM D7844* >3 0.3 0 Soot % % ASTM D7844* >20 9.5 6.9 Sulfation Ass/mm ASTM D7845* >30 21.2 21.3 Emulsified Water scalar Visual* >0.2 NEG NEG Sulfation Ass/mm ASTM D5185(m) <1 131 The condition of the oil is acceptable for the time in service. Boron ppm ASTM D5185(m) <1 131 Molybdenum ppm ASTM D5185(m) 0 <1 Manganesse ppm ASTM D5185(m) 0 <1 Manganesse ppm ASTM D5185(m) 0 <1 Manganesium ppm ASTM D5185(m) 0 <1 Manganesium ppm ASTM D5185(m) 1061 74 Calcium ppm ASTM D5185(m) 1061 121 Calcium ppm ASTM D5185(m) 1061 123 Calcium ppm ASTM D5185(m) 1061 123 Calcium ppm ASTM D5185(m) 1061 123 Calcium ppm ASTM D5185(m) 1061 124 Calcium		Aluminum	ppm	ASTM D5185(m)	>20	5	3	
Tin		Lead	ppm	ASTM D5185(m)	>40	0	<1	
Vanadium ppm ASTM D5185(m) 0 0 0		Copper	ppm	ASTM D5185(m)	>330	1	2	
Silicon ppm ASTM D5185 m >25 6 5		Tin	ppm	ASTM D5185(m)	>15	<1	<1	
Potassium ppm ASTM D5185(m) >20 2 8		Vanadium	ppm	ASTM D5185(m)		0	0	
Potassium ppm ASTM D5185(m) >20 2 8	CONTAMINATION	0.00		AOTA DE40E()	05			
Fuel WC Method >5 < <1.0 <1.0 <	CONTAMINATION							
Water	There is no indication of any contamination in the oil.		ppm					
Glycol WC Method NEG NEG								
Soot %					>0.2			
Nitration Abs/cm ASTM D7624* >20 9.5 6.9		-	0/		0			
Sulfation Abs/.1mm ASTM D7415* >30 21.2 21.3								
Emulsified Water scalar Visual* >0.2 NEG NEG								
Sodium ppm ASTM D5185(m) 6 5								
Boron ppm ASTM D5185(m) <1 131	I LID CONDITION	O a diama		AOTM DEADE				
Barium ppm ASTM D5185(m) 0 <1 Molybdenum ppm ASTM D5185(m) 310 5 Manganese ppm ASTM D5185(m) 0 <1 Magnesium ppm ASTM D5185(m) 1061 74 Calcium ppm ASTM D5185(m) 1164 2307 Phosphorus ppm ASTM D5185(m) 1233 1035 Zinc ppm ASTM D5185(m) 1306 1121 Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9				. ,				
Molybdenum ppm ASTM D5185(m) 310 5 Manganese ppm ASTM D5185(m) 0 <1	The condition of the oil is acceptable for the time in service.							
Manganese ppm ASTM D5185(m) 0 <1 Magnesium ppm ASTM D5185(m) 1061 74 Calcium ppm ASTM D5185(m) 1164 2307 Phosphorus ppm ASTM D5185(m) 1233 1035 Zinc ppm ASTM D5185(m) 1306 1121 Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9								
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Calcium ppm ASTM D5185(m) 1164 2307 Phosphorus ppm ASTM D5185(m) 1233 1035 Zinc ppm ASTM D5185(m) 1306 1121 Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9		_						
Phosphorus ppm ASTM D5185(m) 1233 1035 Zinc ppm ASTM D5185(m) 1306 1121 Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9								
Zinc ppm ASTM D5185(m) 1306 1121 Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9								
Sulfur ppm ASTM D5185(m) 2949 3024 Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9		-						
Oxidation Abs/.1mm ASTM D7414* >25 18.1 13.9								
					>25			





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory

Lab Number : 02619840 Unique Number : 5736950 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : GFL0105895 **Tested**

Diagnosed

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 05 Mar 2024

: 05 Mar 2024

: 05 Mar 2024 - Wes Davis

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.

GFL Environmental - 348

1027 Kirk Lline East Bracebridge, ON CA P1L 0A1 Contact: Royce Reid roycereid@gflenv.com

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