

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Area (TLR3801) 414122 Component Transmission (Auto) Fluid {not provided} (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

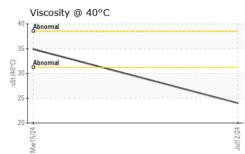
#### Fluid Condition

The condition of the fluid is acceptable for the time in service.

Sample Date         Client Info         12 Jul 2024         15 Mar 2024            Machine Age         mis         Client Info         29736         11275            Oil Opanged         Client Info         29736         11275            Oil Opanged         Client Info         Not Changed         Changed            Sample Status         Client Info         Not Changed         Changed            CONTAMINATION         method         Imil/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         imil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >55         0         0            Nickel         ppm         ASTM D5185m         >50         6         5            Auminum         ppm         ASTM D5185m         >50         6         5            Auminum         ppm         ASTM D5185m         >50         6         1            Vandium         ppm         ASTM D	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         mis         Client Info         29736         11275            Oil Age         mis         Client Info         29736         11275            Oil Changed         Client Info         Not Changed         Changed            Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         Norto           CONTAMINATION         method         Imit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >5         0         0            Titanium         ppm         ASTM D5185m         >50         6         5            Sliver         ppm         ASTM D5185m         >50         6         5            Titanium         ppm         ASTM D5185m         >50         6         5            Copper         ppm         ASTM D5185m         >10         0            Cadmium	Sample Number		Client Info		GFL0128704	GFL0112068	
Oil Age         mls         Client Info         29736         11275            Oil Changed         Client Info         Not Changed          Nor Changed            Sample Status         Imil/base         Current         history1         history2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         imil/base         current         history1         history2           Venaminum         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         6         5            Aluminum         ppm         ASTM D5185m         >50         5         <            Additionum         ppm         ASTM D5185m         >50         6         5            Additionum         ppm         ASTM D5185m         >50         5         <            Additionum         ppm         ASTM D5185m         >0         0	Sample Date		Client Info		12 Jul 2024	15 Mar 2024	
Oil Changed         Client Info         Not Changed         Changed            Sample Status         Imilubase         current         History1         History2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         Imilubase         current         History1         History2           Iron         ppm         ASTM D5185m         >160         33         32            Nickel         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Auminum         ppm         ASTM D5185m         >50         6         5            Lead         ppm         ASTM D5185m         >50         6         5            Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         56         101             Astm D5185m         0         0         0             Managanes	Machine Age	mls	Client Info		29736	11275	
Sample Status         NORMAL         NORMAL         NORMAL            CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >56         0         0            Nickel         ppm         ASTM D5185m         >55         0         0            Silver         ppm         ASTM D5185m         >50         6         5            Auminum         ppm         ASTM D5185m         >50         6         5            Copper         ppm         ASTM D5185m         >50         5         <1            Cadmium         ppm         ASTM D5185m         >20         0         0            ADDITIVES         method         imit/base         current         history1         history2           Barium         ppm         ASTM D5185m         0         0            Codpete	Oil Age	mls	Client Info		29736	11275	
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Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >160         33         32            Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         6         5            Lead         ppm         ASTM D5185m         >50         5         <1            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         0         0         0            ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0	Sample Status				-		
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Dromium         ppm         ASTM D5185m         >5         0         0	WEAR METAL	S	method	limit/base	current	history1	history2
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Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         6         5            Lead         ppm         ASTM D5185m         >50         5         <1	Chromium	ppm	ASTM D5185m	>5	0	0	
Silver         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         6         5            Lead         ppm         ASTM D5185m         >50         5         <1            Copper         ppm         ASTM D5185m         >225         27         3            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         0         0         0            Vanadium         ppm         ASTM D5185m         0         0         0            Cadmium         ppm         ASTM D5185m         0         0         0            Boron         ppm         ASTM D5185m         0         0         0            Magnanese         ppm         ASTM D5185m         0         0             Magnasine         ppm         ASTM D5185m         4459         105            Sulfur         ppm         ASTM D5185m         20         5         2 <t< td=""><td>Nickel</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;5</td><th>0</th><td>0</td><td></td></t<>	Nickel	ppm	ASTM D5185m	>5	0	0	
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Lead         ppm         ASTM D5185m         >50         5         <1            Copper         ppm         ASTM D5185m         >225         27         3            Tin         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         0         0         0            Cadmium         ppm         ASTM D5185m         0         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         <-1	Silver	ppm	ASTM D5185m	>5	0	0	
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CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m56101BariumppmASTM D5185m00MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m0<1	Tin	ppm	ASTM D5185m	>10	0	0	
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ManganeseppmASTM D5185m<11MagnesiumppmASTM D5185m0<1	Boron	ppm	ASTM D5185m		56	101	
MagnesiumppmASTM D5185m0<1CalciumppmASTM D5185m445105PhosphorusppmASTM D5185m459280ZincppmASTM D5185m1215SulfurppmASTM D5185m16151459SulfurppmASTM D5185m16151459CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>2052SodiumppmASTM D5185m>20<1	Boron Barium						
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VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 0 445 459 12 1615 current	0 0 1 <1 105 280 15 1459 history1	
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Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m	>20 >20 limit/base NONE NONE	0 0 - 1 0 445 459 12 1615 <i>current</i> 5 6 <1 <i>current</i> NONE NONE	0 0 1 <1 280 15 1459 history1 2 4 1 1 history1 NONE	    history2  history2  history2
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m Yisual	>20 >20 limit/base NONE NONE NONE	0 0 <1 0 445 459 12 1615 <u>current</u> 5 6 <1 <u>current</u> NONE NONE NONE NONE	0 0 1 <1 280 15 1459 <u>history1</u> 2 4 1 1 <u>history1</u> NONE NONE NONE NONE	     history2  history2  history2
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>20 >20 limit/base NONE NONE NONE	0 0 <1 0 445 459 12 1615 <u>current</u> 5 6 <1 <u>current</u> NONE NONE NONE NONE NONE	0 0 1 <1 280 15 1459 <u>history1</u> 2 4 1 1 <u>history1</u> NONE NONE NONE NONE	      history2  history2
Odor         scalar         *Visual         NORML         NORML         NORML            Emulsified Water         scalar         *Visual         >0.1         NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	0 0 <1 0 445 459 12 1615 <u>current</u> 5 6 <1 <u>current</u> NONE NONE NONE NONE NONE	0 0 1 <1 (1 105 280 15 1459 <u>history1</u> 2 4 1 2 4 1 1 <u>history1</u> NONE NONE NONE NONE NONE	     history2   history2
Emulsified Water scalar *Visual >0.1 NEG NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	0 0 <1 0 445 459 12 1615 <i>current</i> 5 6 <1 <i>current</i> NONE NONE NONE NONE NONE NONE	0 0 1 <1 (1 105 280 15 1459 history1 2 4 1 2 4 1 1 NONE NONE NONE NONE NONE NONE NONE	     history2  history2  history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	0 0 41 0 445 459 12 1615 <i>current</i> 5 6 <1 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	0 0 1 <1 (1 105 280 15 1459 history1 2 4 1 2 4 1 1 NONE NONE NONE NONE NONE NONE NONE	     history2   history2  history2
Free Water scalar *Visual NEG	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	0 0 445 459 12 1615 <i>current</i> 5 6 <1 <i>current</i> 8 NONE NONE NONE NONE NONE NONE NONE NO	0 0 1 <1 280 15 1459 history1 2 4 1 2 4 1 NONE NONE NONE NONE NONE NONE NONE NO	     history2   history2  history2
43:10) Rev: 1 Submitted By: TECHNICIAN ACCOUNT	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NORE NORML NORML	0 0 445 459 12 1615 <i>current</i> 5 6 <1 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	0 0 1 <1 <1 105 280 15 1459 history1 2 4 1 2 4 1 1 NONE NONE NONE NONE NONE NONE NONE	<ul> <li></li> <li< td=""></li<></ul>



# **OIL ANALYSIS REPORT**



FLUID PROPE	RTIES n	nethod	limit/base	current	history1	history2
Visc @ 40°C	cSt AS	TM D445		24.0	34.9	
SAMPLE IMAG	GES n	nethod	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
30 - chromium						
25						
20 15						
<sup>15</sup>						
10-						
5-						
Mar15/24			Jul12/24			
			Jul			
Non-ferrous Meta	ls					
25 - copper lead			/			
20						
§ 15 -						
10						
5						
		*****				
Mar15/24			Jul12/24			
≊ Viscosity @ 40°C			Ţ			
40 Abnormal						
38						
34						
Abnormal						
28		_				
26						
24						
Mar15/24 -			Jul12/24 -			
Mar			Jul .			
WearCheck USA - 50				GFL Env	ironmental - 983 - S	
WearCheck USA - 50 GFL0128704 06240808	1 Madison A Received Tested	l :18	NC 27513 Jul 2024 Jul 2024	GFL Env	16011 We	<b>ugar Land Haulir</b> st Belfort Stree Sugar Land, T



Contact: Adrian Martinez adrianmartinez@gflenv.com T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2