

Machine Id **7774** Component **Front Diesel Engine** Fluid **CASTROL TECTION EXTRA SAE 15W-40 (40 LTR)**

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Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

RECOMMENDATION

CONTAMINATION

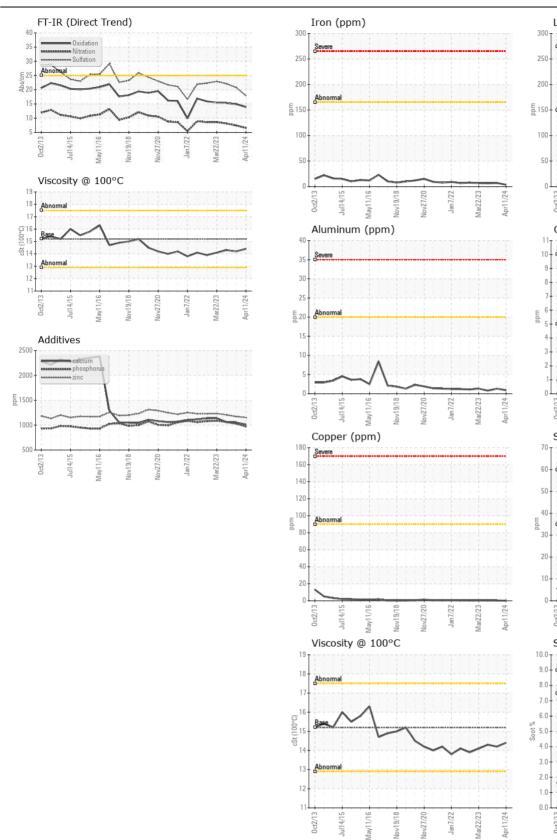
There is no indication of any contamination in the oil.

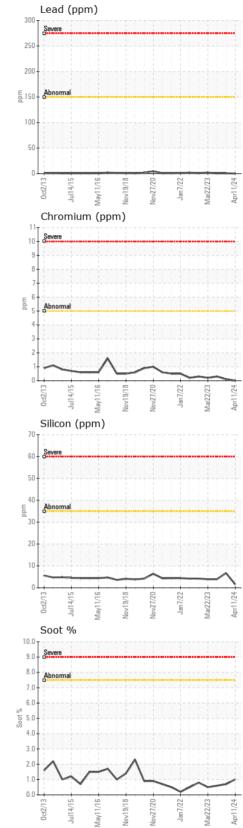
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Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

TR)										
	Test	UOM	Method	Limit/Abn	Current	History1	History2			
	Sample Number		Client Info		GFL0118283	GFL0111123	GFL0089074			
	Sample Date		Client Info		11 Apr 2024	30 Jan 2024	24 Aug 2023			
	Machine Age	hrs	Client Info		127925	28606	133840			
	Oil Age	hrs	Client Info		0	0	0			
	Filter Age	hrs	Client Info		0	0	0			
	Oil Changed		Client Info		Changed	Changed	Changed			
	Filter Changed		Client Info		Changed	Changed	Changed			
	Sample Status				NORMAL	NORMAL	NORMAL			
	Iron	ppm	ASTM D5185(m)	>165	4	7	6			
	Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1			
	Nickel	ppm	ASTM D5185(m)	>4	0	0	0			
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0			
	Silver	ppm	ASTM D5185(m)	>2	0	0	0			
	Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1			
	Lead	ppm	ASTM D5185(m)	>150	0	<1	<1			
	Copper	ppm	ASTM D5185(m)	>90	<1	<1	<1			
	Tin	ppm	ASTM D5185(m)	>5	0	0	0			
	Vanadium	ppm	ASTM D5185(m)		0	0	0			
	Silicon	ppm	ASTM D5185(m)	>35	2	7	4			
	Potassium	ppm	ASTM D5185(m)	>20	- <1	1	2			
	Fuel	pp	WC Method	>3.0	<1.0	<1.0	<1.0			
	Water		WC Method	>0.2	NEG	NEG	NEG			
	Glycol		WC Method		NEG	NEG	NEG			
	Soot %	%	ASTM D7844*	>7.5	1	0.7	0.6			
	Nitration	Abs/cm	ASTM D7624*	>20	6.5	7.4	8.1			
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.9	20.8	22.1			
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG			
	Sodium	ppm	ASTM D5185(m)		13	10	19			
	Boron	ppm	ASTM D5185(m)	30	3	4	2			
	Barium	ppm	ASTM D5185(m)		0	0	0			
	Molybdenum	ppm	ASTM D5185(m)		57	60	59			
	Manganese	ppm	ASTM D5185(m)		0	0	<1			
	Magnesium	ppm	ASTM D5185(m)	110	950	960	975			
	Calcium	ppm	ASTM D5185(m)	2740	1012	1053	1063			
	Phosphorus	ppm	ASTM D5185(m)	1240	972	1028	1061			
	Zinc	ppm	ASTM D5185(m)	1350	1152	1172	1206			
	Sulfur	ppm	ASTM D5185(m)	3520	2513	2719	2550			
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	14.9	15.3			
	Visc @ 100°C	cSt	ASTM D7279(m)	15.2	14.4	14.2	14.3			

Submitted By: Kim McCall Page 1 of 2







GFL Environmental - 225 - COT(D2) Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0118283 Received : 18 Apr 2024 Lab Number : 02629849 Tested : 18 Apr 2024 Unique Number : 5762981 : 18 Apr 2024 - Wes Davis Diagnosed 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.

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