WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
900120
Component
Diesel Engine
Fluid
CASTROL 15W

CASTROL 15W40 (--- GAL)

CASTROL 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMMENDATION	Sample Number	00111	Client Info	LITTIO / LOTT	GFL0100710		
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jun 2024		
	Machine Age	hrs	Client Info		553775		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>120	5		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)	>20	2		
	Lead	ppm	ASTM D5185(m)	>40	0		
	Copper	ppm	ASTM D5185(m)		<1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)	NONE	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2		
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		- <1		
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>3.0	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>4	0		
	Nitration	Abs/cm	ASTM D7624*	>20	6.0		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185(m)	>406	1		
FLUID CONDITION	Boron	ppm	ASTM D5185(m)	>400	4		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		56		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		924		
	Calcium	ppm	ASTM D5185(m)		1077		
	Phosphorus	ppm	ASTM D5185(m)		985		
	Zinc	ppm	ASTM D5185(m)		1170		
	Sulfur	ppm	ASTM D5185(m)		2568		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8		
	Visc @ 40°C	cSt	ASTM D7279(m)		101		
	Visc @ 100°C	cSt	ASTM D7279(m)		13.8		
	Viscosity Index (VI)		ASTM D2270*		137		
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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0100710

Lab Number : 02641308 Unique Number : 5798847

Received **Tested** Diagnosed : 12 Jun 2024

: 12 Jun 2024

: 12 Jun 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: KV40, VI, Visual) To discuss this sample report, contact Customer Service at 1-800-268-2131.

GFL Environmental - 861 - Moncton

1095 CHAMPLAIN ST MONCTON, NB CA E1A 1P9 Contact: Vicki Clark

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