



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7791
Component
Diesel Engine
Fluid
CASTROL 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AP97746	AP95821	AP92398
Sample Date		Client Info		21 Feb 2015	03 Feb 2015	31 Jul 2014
Machine Age	kms	Client Info		4785	6628	5497
Oil Age	kms	Client Info		600	0	0
Filter Age	kms	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	20	26	28
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	5	4
Lead	ppm	ASTM D5185(m)	>150	<1	<1	3
Copper	ppm	ASTM D5185(m)	>90	7	12	74
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	0

CONTAMINATION

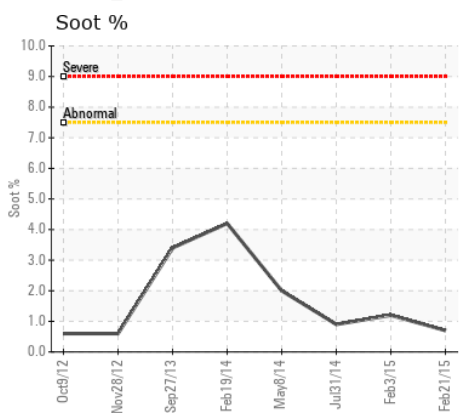
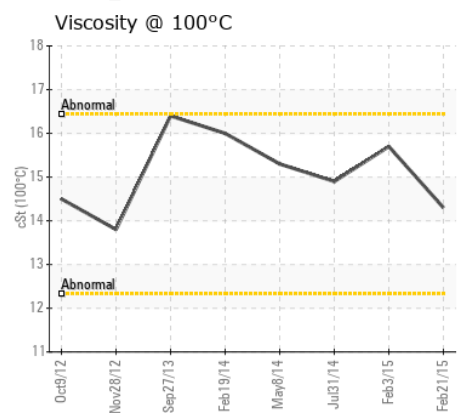
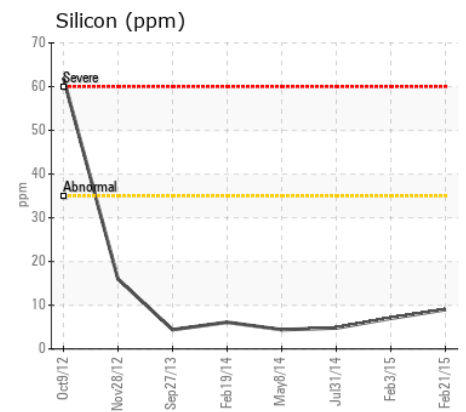
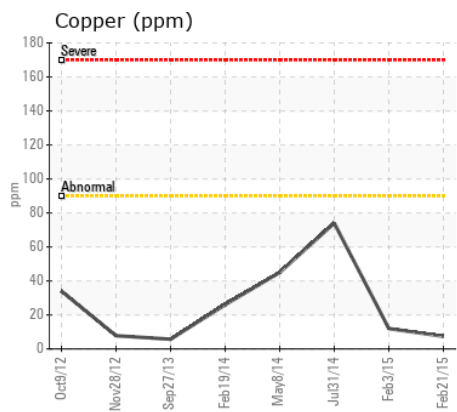
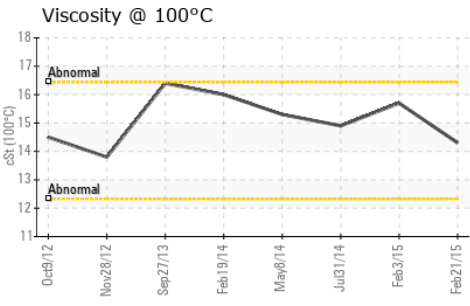
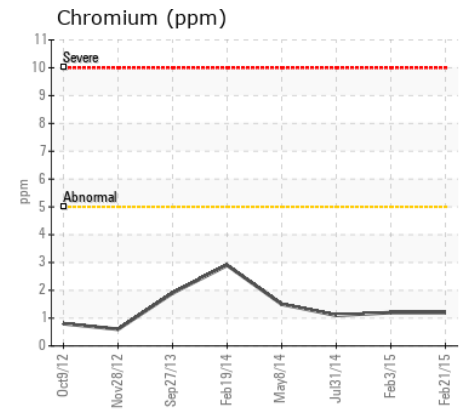
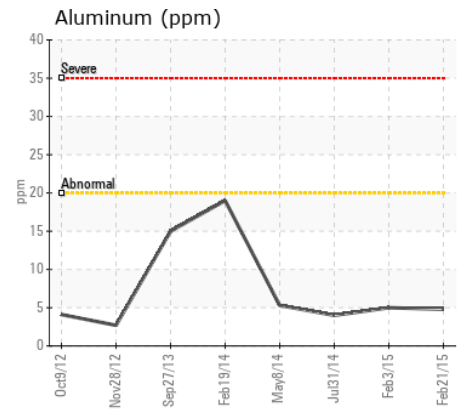
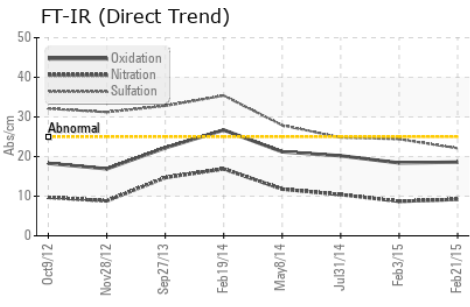
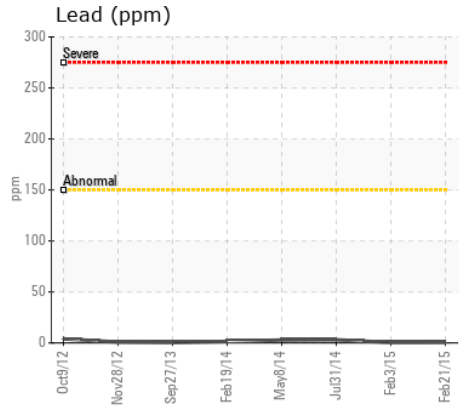
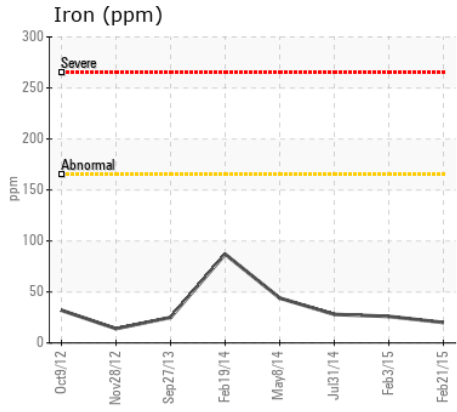
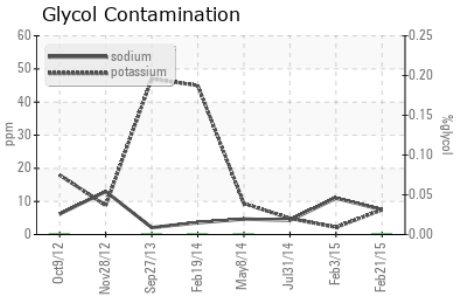
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185(m)	>35	9	7	5
Potassium	ppm	ASTM D5185(m)	>20	8	2	5
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	0.7	1.2	0.9
Nitration	Abs/cm	ASTM D7624*		9.2	8.7	10.4
Sulfation	Abs/.1mm	ASTM D7415*		22.1	24.4	24.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		8	11	4
Boron	ppm	ASTM D5185(m)		54	370	38
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		5	65	2
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		10	294	21
Calcium	ppm	ASTM D5185(m)		2524	1546	2295
Phosphorus	ppm	ASTM D5185(m)		985	1016	948
Zinc	ppm	ASTM D5185(m)		1201	1200	1190
Sulfur	ppm	ASTM D5185(m)		3415	3060	3350
Oxidation	Abs/.1mm	ASTM D7414*		18.6	18.4	20.2
Visc @ 100°C	cSt	ASTM D7279(m)		14.3	15.7	14.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : AP97746 **Received** : 02 Mar 2015
Lab Number : 01979201 **Tested** : 02 Mar 2015
Unique Number : 4069412 **Diagnosed** : 02 Mar 2015 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 225 - COT(D2)
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 T: (416)745-8080
 F:

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.