



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
95452
Component
Front Diesel Engine
Fluid
SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC03271455	---	---
Sample Date		Client Info		12 Apr 2013	---	---
Machine Age	mls	Client Info		488394	---	---
Oil Age	mls	Client Info		0	---	---
Filter Age	mls	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		29	---	---
Chromium	ppm	ASTM D5185m		2	---	---
Nickel	ppm	ASTM D5185m		<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		5	---	---
Lead	ppm	ASTM D5185m		6	---	---
Copper	ppm	ASTM D5185m		2	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

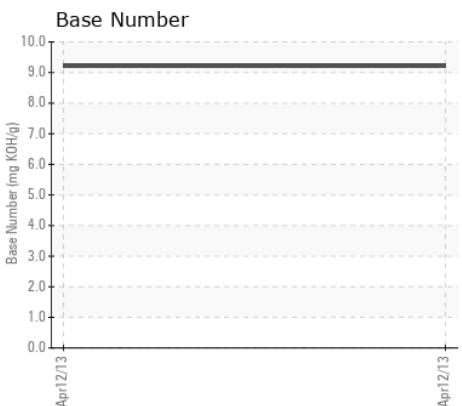
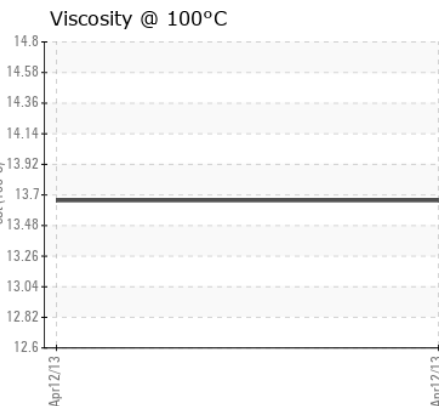
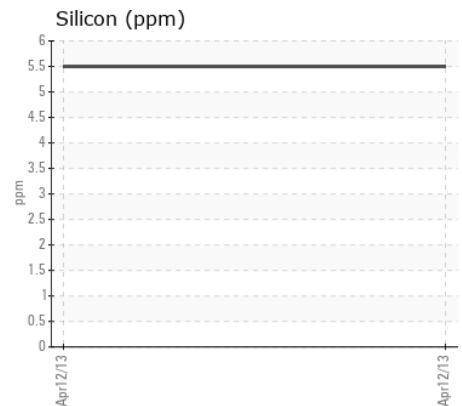
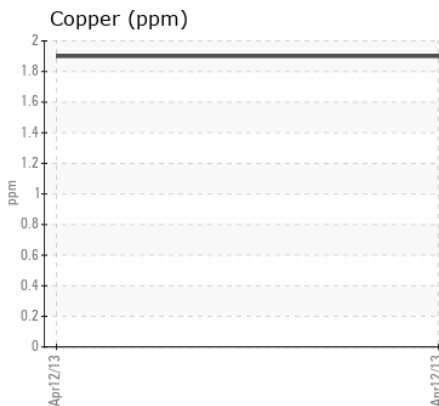
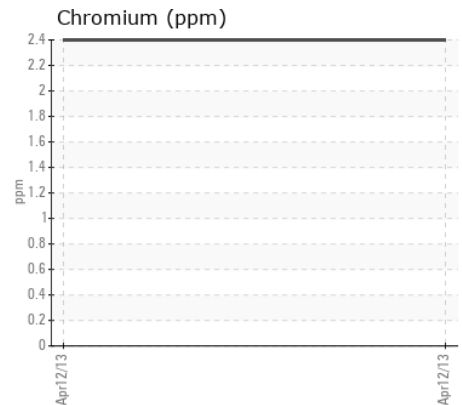
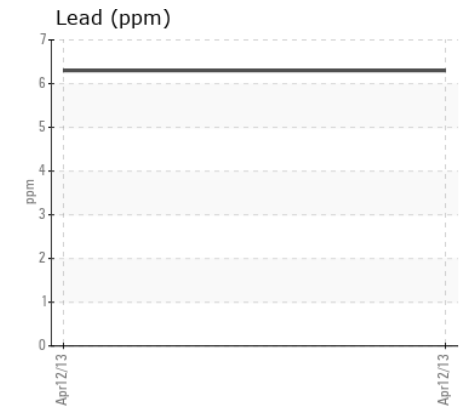
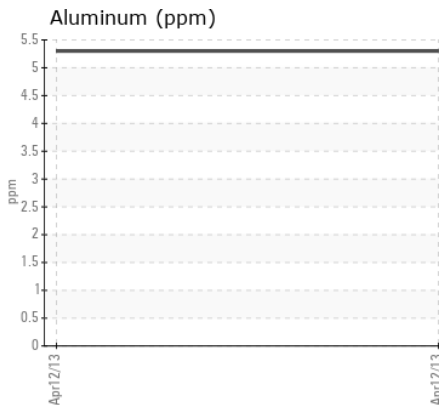
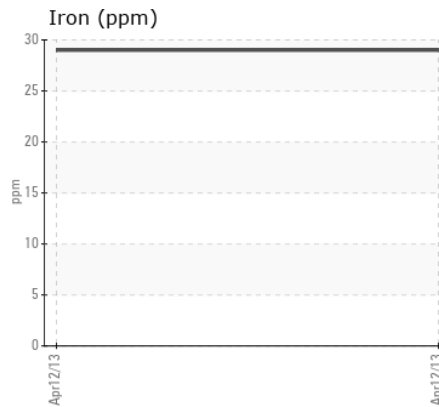
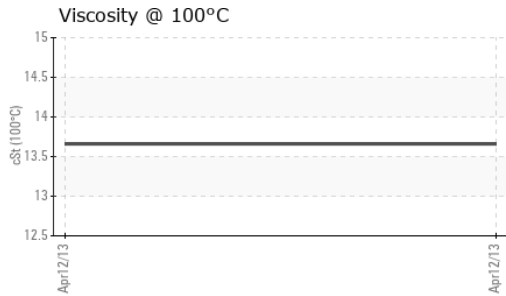
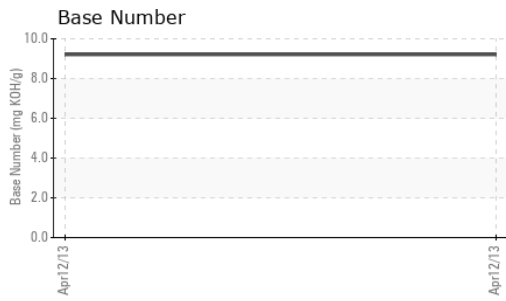
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		6	---	---
Potassium	ppm	ASTM D5185m		2	---	---
Fuel		WC Method		<1.0	---	---
Water		WC Method		NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624		6.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		20.	---	---
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		NEG	---	---

FLUID CONDITION

The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		14	---	---
Boron	ppm	ASTM D5185m		337	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		74	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		325	---	---
Calcium	ppm	ASTM D5185m		1676	---	---
Phosphorus	ppm	ASTM D5185m		1114	---	---
Zinc	ppm	ASTM D5185m		1219	---	---
Sulfur	ppm	ASTM D5185m		4010	---	---
Oxidation	Abs/.1mm	*ASTM D7414		15.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.21	---	---
Visc @ 100°C	cSt	ASTM D445		13.66	---	---
Fluid Type		*In-house		SAE_ENG_DE	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC03271455 **Received** : 23 Apr 2013
Lab Number : 03271455 **Diagnosed** : 26 Apr 2013
Unique Number : 6239100 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: FluidDetermination)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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