



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SIMONSON
Machine Id
VOLVO ALLAN SIMESON
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0001614	---	---
Sample Date		Client Info		17 Jul 2007	---	---
Machine Age	kms	Client Info		429281	---	---
Oil Age	kms	Client Info		45112	---	---
Filter Age	kms	Client Info		45112	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)		13	---	---
Chromium	ppm	ASTM D5185(m)		<1	---	---
Nickel	ppm	ASTM D5185(m)		0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		2	---	---
Lead	ppm	ASTM D5185(m)		<1	---	---
Copper	ppm	ASTM D5185(m)		28	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		<1	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

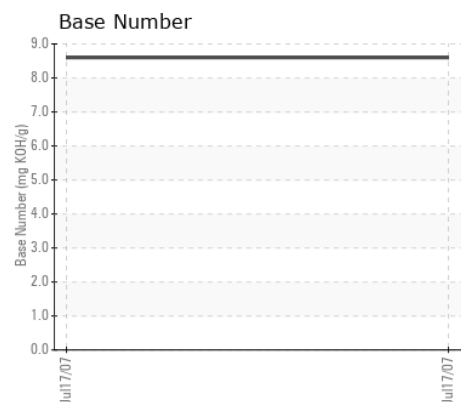
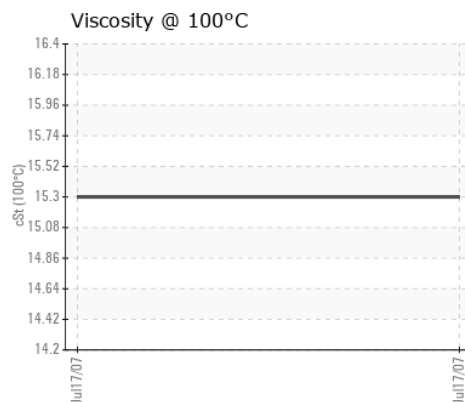
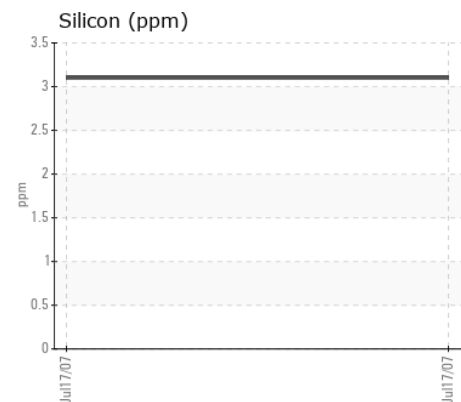
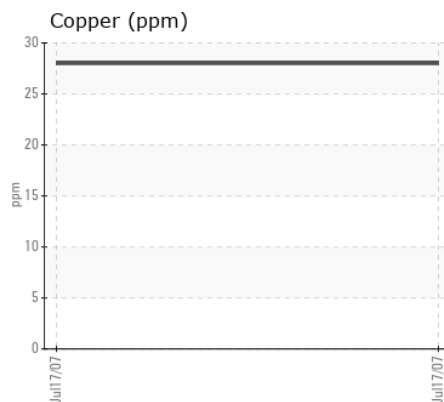
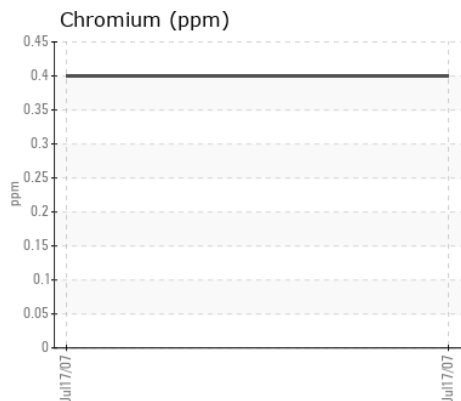
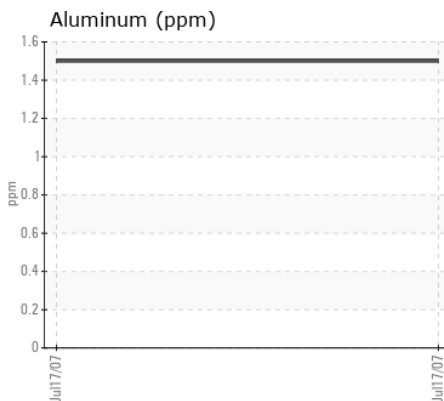
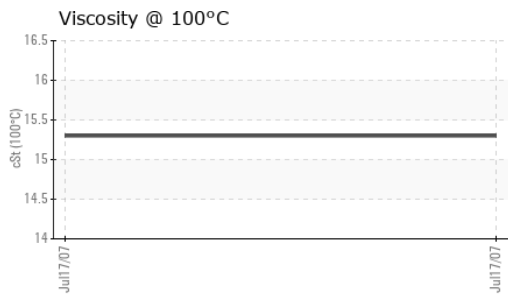
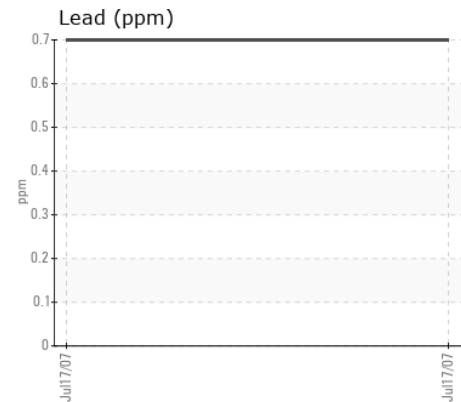
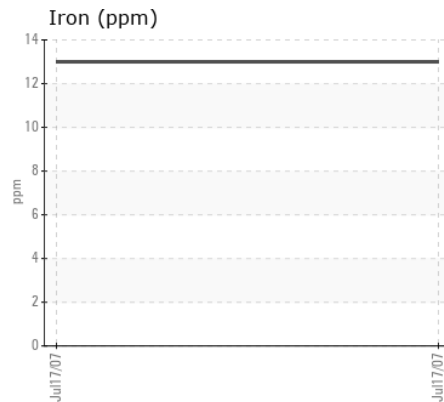
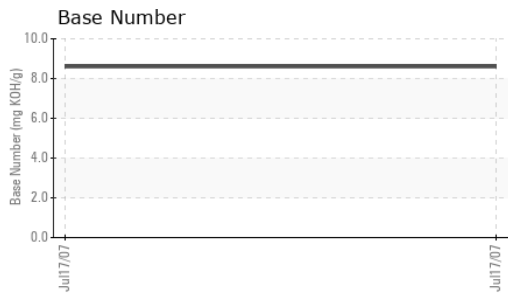
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185(m)		3	---	---
Potassium	ppm	ASTM D5185(m)		0	---	---
Fuel		WC Method		<1.0	---	---
Water		WC Method		NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0.3	---	---
Nitration	Abs/cm	ASTM D7624*		8	---	---
Sulfation	Abs/.1mm	ASTM D7415*		21	---	---
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	---	---
Boron	ppm	ASTM D5185(m)		8	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		4	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		9	---	---
Calcium	ppm	ASTM D5185(m)		2563	---	---
Phosphorus	ppm	ASTM D5185(m)		922	---	---
Zinc	ppm	ASTM D5185(m)		1164	---	---
Sulfur	ppm	ASTM D5185(m)		2879	---	---
Oxidation	Abs/.1mm	ASTM D7414*		17	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		15.3	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : KL0001614 **Received** : 20 Jul 2007
Lab Number : **01397252** **Diagnosed** : 20 Jul 2007
Unique Number : 2487727 **Diagnostician** :
Test Package : MOB1+

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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.