



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
CATERPILLAR EMD CAT 309T

Component
Diesel Engine

Fluid
SAE 40W (20 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

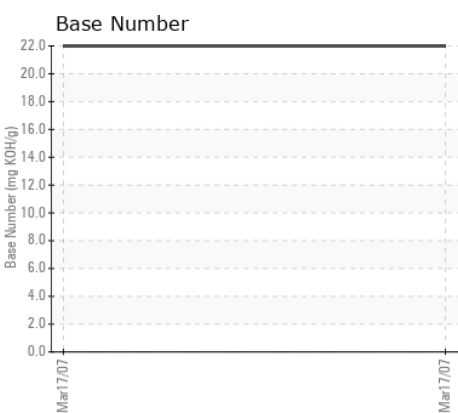
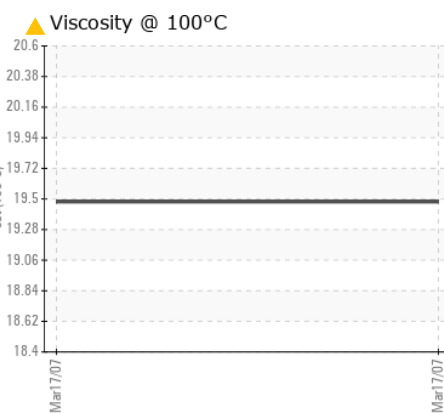
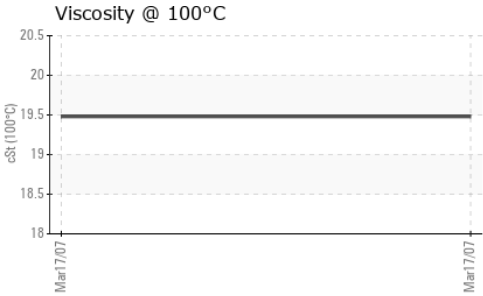
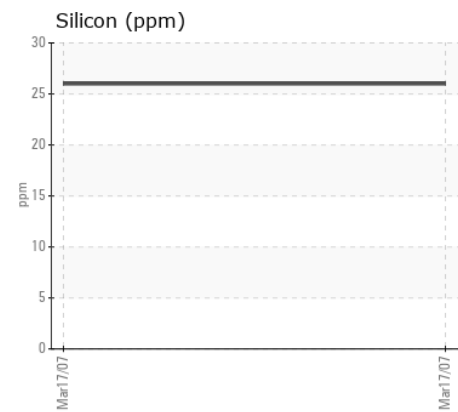
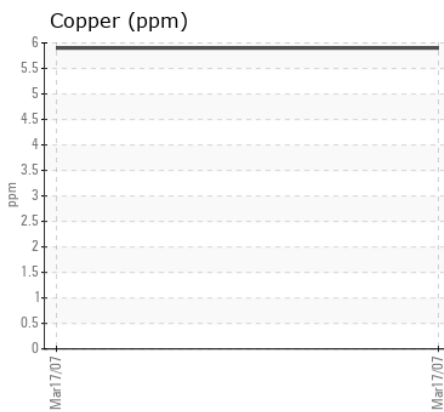
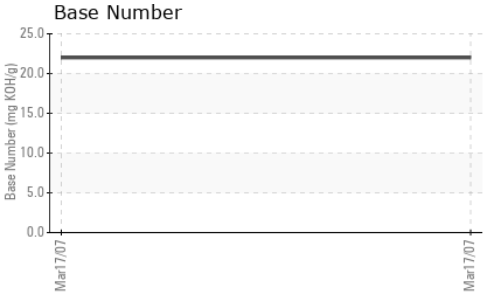
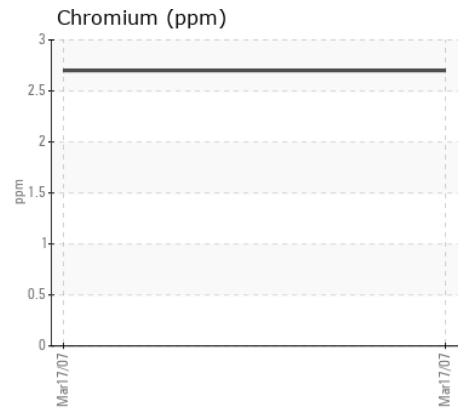
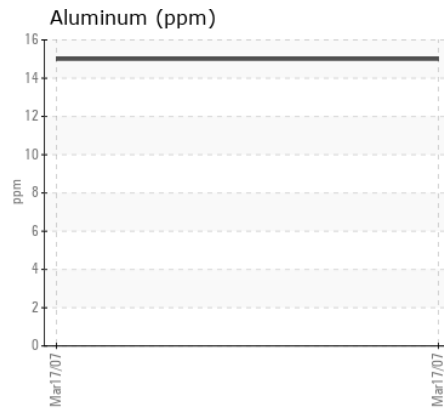
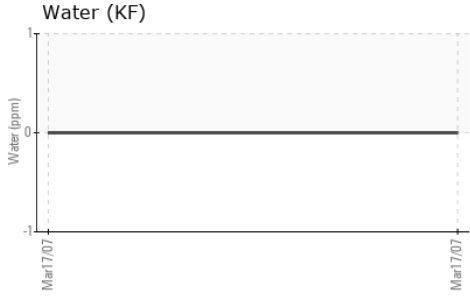
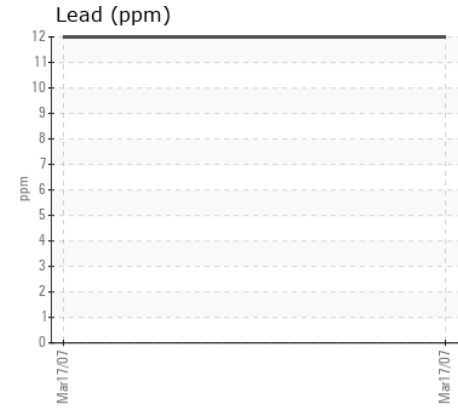
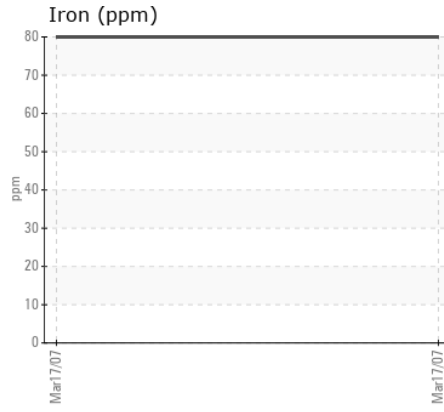
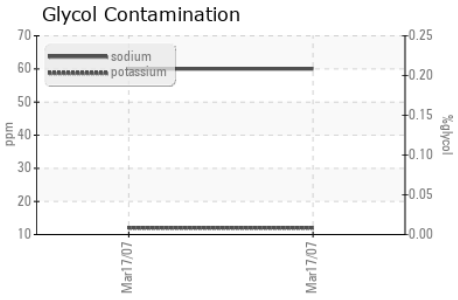
CONTAMINATION

Sodium and/or potassium levels are high indicating a possible coolant leak. There is a trace of moisture present in the oil.

FLUID CONDITION

The oil viscosity is higher than normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP034709	---	---
Sample Date		Client Info		17 Mar 2007	---	---
Machine Age	hrs	Client Info		9368	---	---
Oil Age	hrs	Client Info		518	---	---
Filter Age	hrs	Client Info		518	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m		80	---	---
Chromium	ppm	ASTM D5185m		3	---	---
Nickel	ppm	ASTM D5185m		2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		15	---	---
Lead	ppm	ASTM D5185m		12	---	---
Copper	ppm	ASTM D5185m		6	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m		26	---	---
Potassium	ppm	ASTM D5185m		12	---	---
Fuel		WC Method		<1.0	---	---
Water	%	ASTM D6304		▲ 0.145	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844		0.6	---	---
Nitration	Abs/cm	*ASTM D7624		19.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		46.	---	---
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	---	---
Sodium	ppm	ASTM D5185m		▲ 60	---	---
Boron	ppm	ASTM D5185m		3	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		121	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		2994	---	---
Calcium	ppm	ASTM D5185m		6442	---	---
Phosphorus	ppm	ASTM D5185m		1090	---	---
Zinc	ppm	ASTM D5185m		1641	---	---
Oxidation	Abs/.1mm	*ASTM D7414		35.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		22.0	---	---
Visc @ 100°C	cSt	ASTM D445		▲ 19.48	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP034709 **Received** : 20 Apr 2007
Lab Number : 01946140 **Tested** : 23 Apr 2007
Unique Number : 4084825 **Diagnosed** : 23 Apr 2007 - Doug Bogart
Test Package : MOB 2 (Additional Tests: Glycol, KF)

OILMAX S.A.S.
 AV 6 DICIEMBRE Y GASPARGANTERO
 QUITO-ECUADOR,

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 oilmax.ec@gmail.com
 T: (593)996-451694

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)

F: x: