



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2002 HINO 2002 HINO GD
Component
Rear Diesel Engine
Fluid
ROYAL PURPLE MOTOR OIL 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP034908	RP033627	RP033949
Sample Date		Client Info		06 Oct 2006	15 Sep 2006	22 Aug 2006
Machine Age	mls	Client Info		233878	228890	226156
Oil Age	mls	Client Info		2265	2734	2486
Filter Age	mls	Client Info		2265	2734	2486
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		10	15	7
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		7	7	4
Lead	ppm	ASTM D5185m		2	2	1
Copper	ppm	ASTM D5185m		2	3	1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

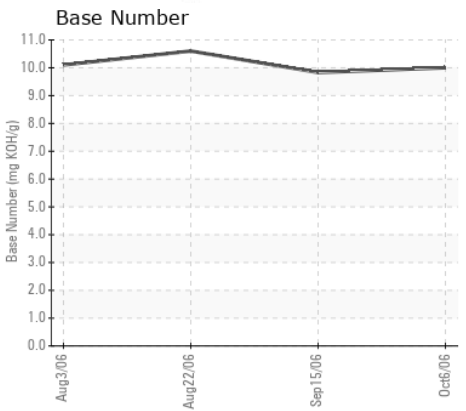
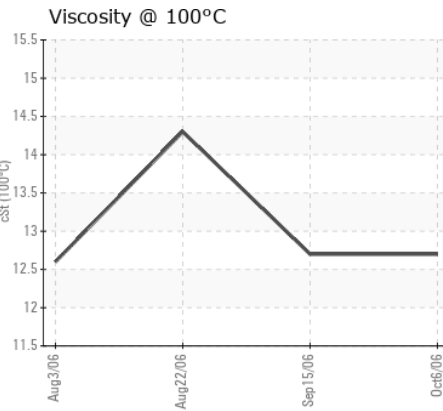
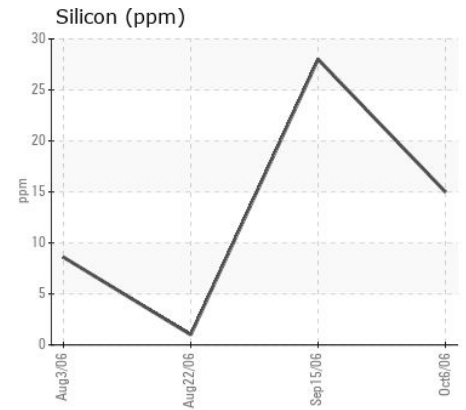
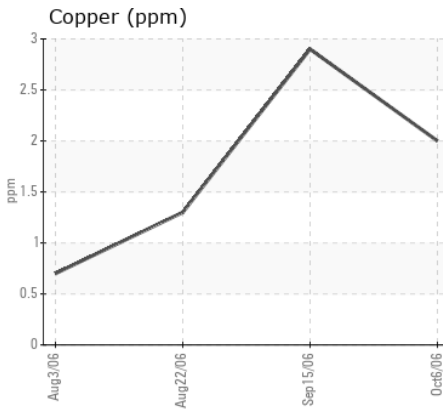
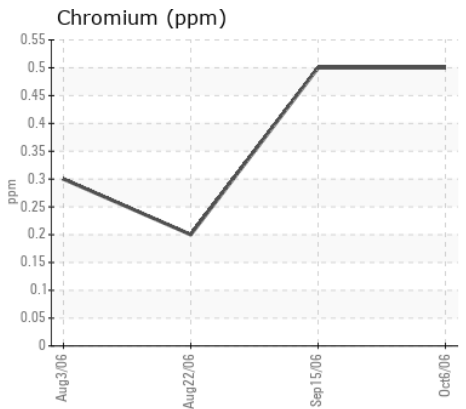
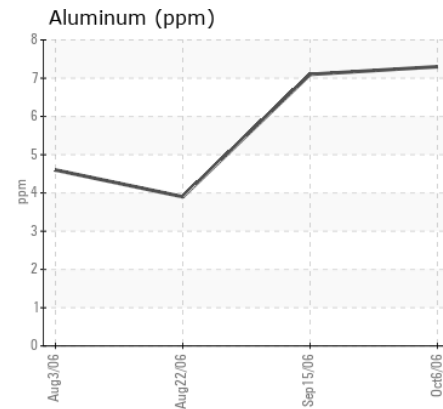
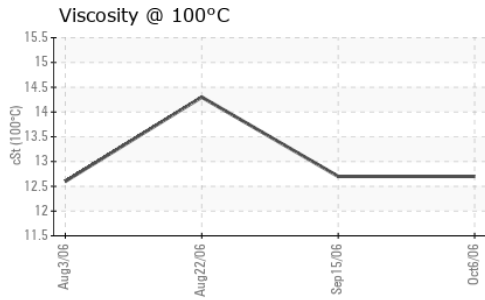
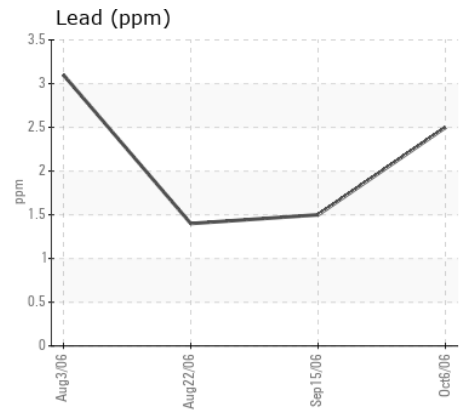
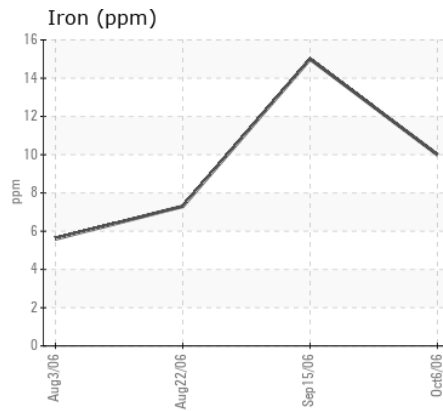
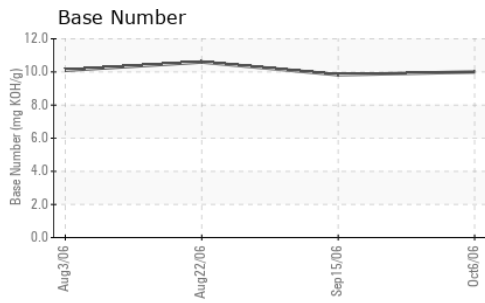
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		15	▲ 28	1
Potassium	ppm	ASTM D5185m		0	0	1
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		0.06	0.04	0.00
Sulfation	Abs/.1mm	*ASTM D7415		0.16	0.11	0.03
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	3	<1
Boron	ppm	ASTM D5185m		3	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		117	105	94
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		64	147	61
Calcium	ppm	ASTM D5185m		3253	2991	2672
Phosphorus	ppm	ASTM D5185m		1187	1022	918
Zinc	ppm	ASTM D5185m		1251	1156	993
Oxidation	Abs/.1mm	*ASTM D7414		0.27	0.21	0.11
Base Number (BN)	mg KOH/g	ASTM D2896		10.0	9.83	10.6
Visc @ 100°C	cSt	ASTM D445		12.7	12.7	14.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP034908
Lab Number : 01866057
Unique Number : 3954607
Test Package : MOB 2

Received : 16 Nov 2006
Tested : 17 Nov 2006
Diagnosed :

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

Contact: DANNY BARREIRO
 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)

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