



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP033627	RP033949	RP033698
Sample Date		Client Info		15 Sep 2006	22 Aug 2006	03 Aug 2006
Machine Age	mls	Client Info		228890	226156	223670
Oil Age	mls	Client Info		2734	2486	2486
Filter Age	mls	Client Info		2734	2486	2486
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		15	7	6
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		7	4	5
Lead	ppm	ASTM D5185m		2	1	3
Copper	ppm	ASTM D5185m		3	1	<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

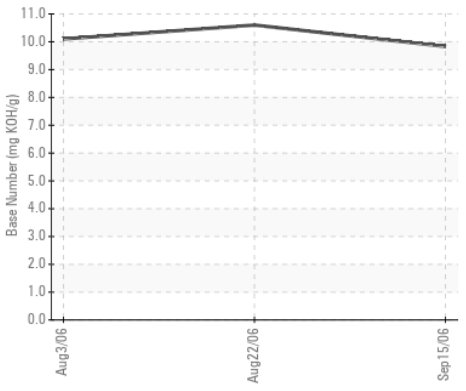
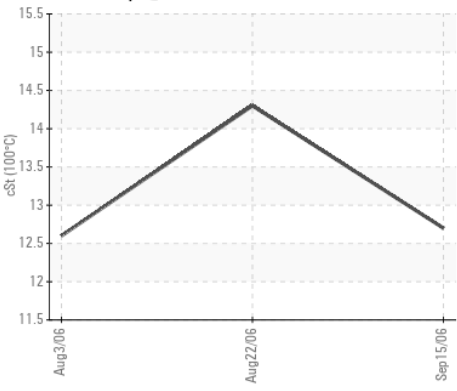
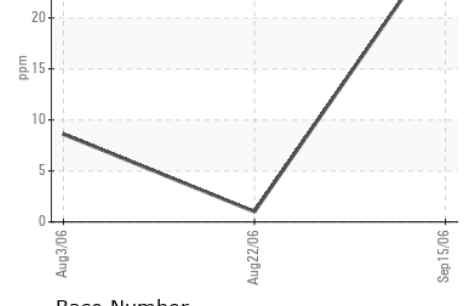
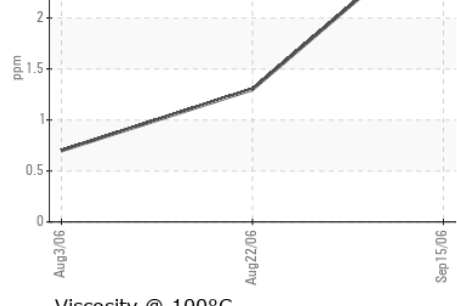
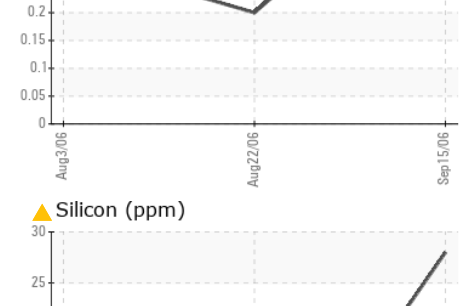
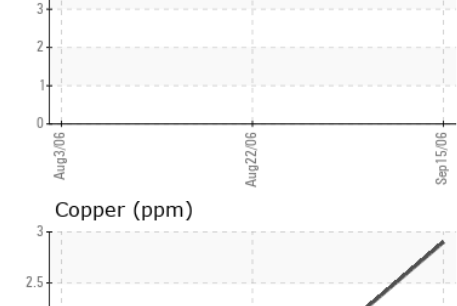
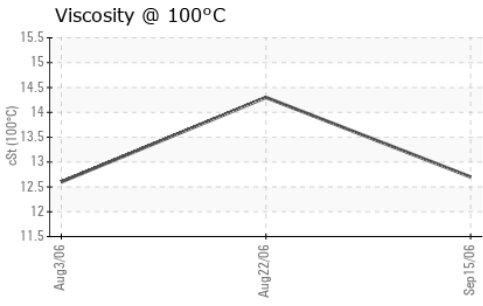
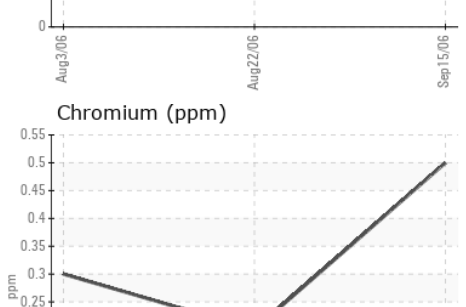
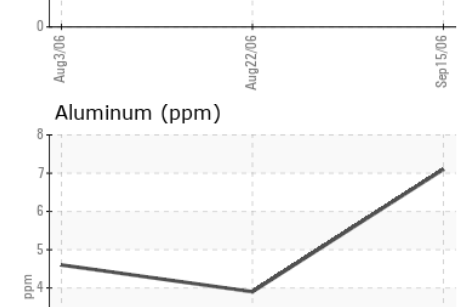
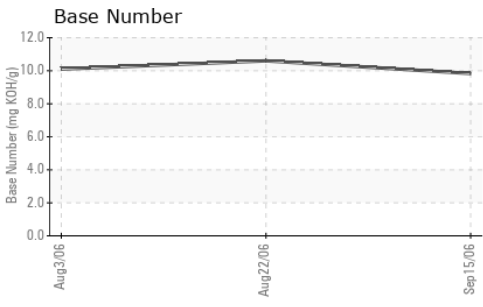
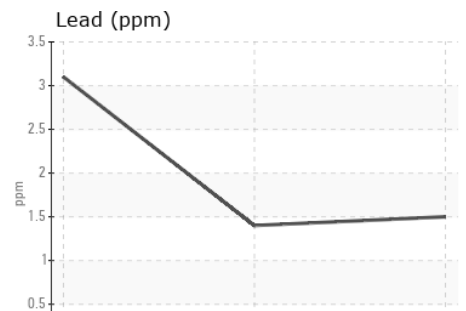
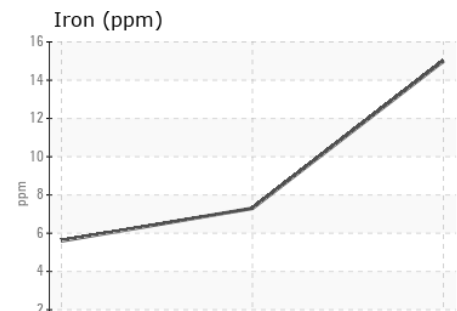
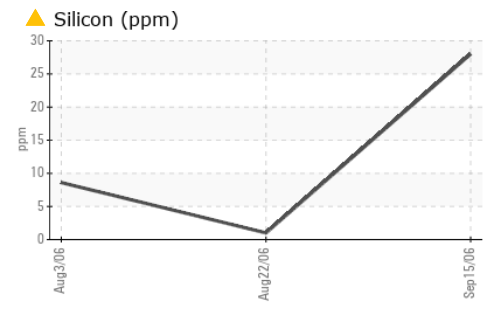
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m		▲ 28	1	9
Potassium	ppm	ASTM D5185m		0	1	0
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	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		0.04	0.00	0.03
Sulfation	Abs/.1mm	*ASTM D7415		0.11	0.03	0.09
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		3	<1	2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		105	94	106
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		147	61	13
Calcium	ppm	ASTM D5185m		2991	2672	2924
Phosphorus	ppm	ASTM D5185m		1022	918	1146
Zinc	ppm	ASTM D5185m		1156	993	1202
Oxidation	Abs/.1mm	*ASTM D7414		0.21	0.11	0.19
Base Number (BN)	mg KOH/g	ASTM D2896		9.83	10.6	10.1
Visc @ 100°C	cSt	ASTM D445		12.7	14.3	12.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP033627
Lab Number : 01844445
Unique Number : 3912743
Test Package : MOB 2
Received : 06 Oct 2006
Tested : 09 Oct 2006
Diagnosed : 09 Oct 2006 - Doug Bogart

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

Certificate L2367
 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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