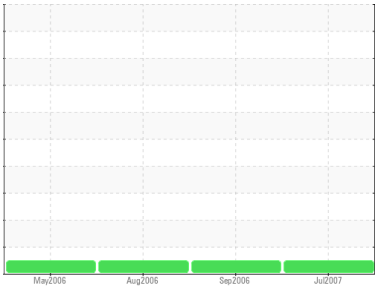
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
2000 BUICK 2000 BUICK PARK AVE
Component
Front Gasoline Engine
Fluid
SAE 10W30 (5 QTS)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Fluid Condition
The condition of oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KLM2203525**	KLM090701	KLM090598
Sample Date		Client Info		**19 Jul 2007**	01 Sep 2006	23 Aug 2006
Machine Age	mls	Client Info		**153889**	138380	137644
Oil Age	mls	Client Info		**15507**	12595	5274
Oil Changed		Client Info		**Not Changd**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method		**<1.0**	<1.0	<1.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		**37**	8	9
Chromium	ppm	ASTM D5185m		**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**3**	4	3
Lead	ppm	ASTM D5185m		**12**	3	4
Copper	ppm	ASTM D5185m		**8**	7	10
Tin	ppm	ASTM D5185m		**0**	0	<1
Antimony	ppm	ASTM D5185m		**3**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**10**	12	22
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**87**	118	114
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**4**	6	4
Calcium	ppm	ASTM D5185m		**1103**	1424	1648
Phosphorus	ppm	ASTM D5185m		**405**	565	684
Zinc	ppm	ASTM D5185m		**422**	584	744
Sulfur	ppm	ASTM D5185m		**2436**	3066	3373

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**5**	7	10
Sodium	ppm	ASTM D5185m		**4**	6	5
Potassium	ppm	ASTM D5185m		**12**	0	6
Glycol	%	*ASTM D2982		**NEG**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624		**12.**	0.02	0.08
Sulfation	Abs/.1mm	*ASTM D7415		**36.**	0.00	0.08

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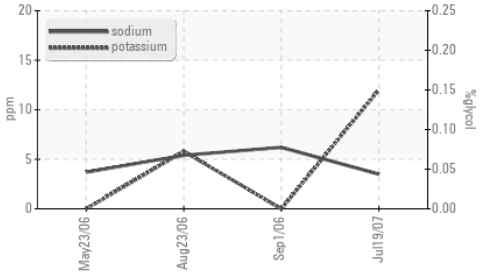
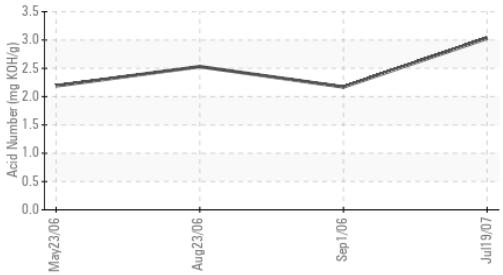
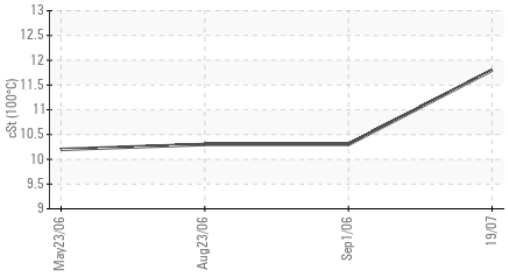
Glycol Contamination



Acid Number



Viscosity @ 100°C



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**2371**	910	961
Particles >6µm		ASTM D7647		**1292**	336	355
Particles >14µm		ASTM D7647		**220**	36	38
Particles >21µm		ASTM D7647		**74**	8	9
Particles >38µm		ASTM D7647		**11**	0	0
Particles >71µm		ASTM D7647		**1**	0	0
Oil Cleanliness		ISO 4406 (c)		**17/15**	16/12	16/12

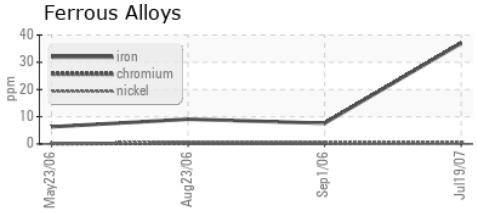
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**21.**	0.02	0.09
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.03**	2.17	2.53

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

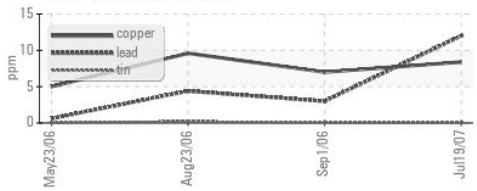
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**11.8**	10.3	10.3

GRAPHS

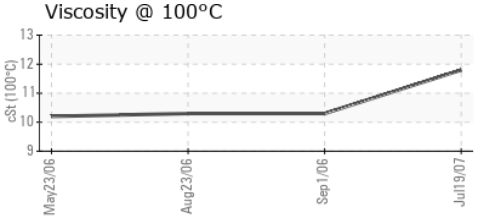
Ferrous Alloys



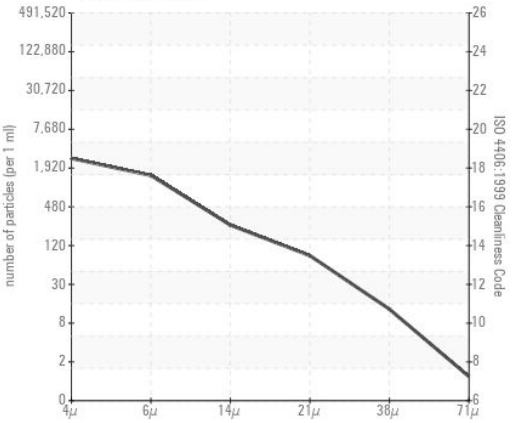
Non-ferrous Metals



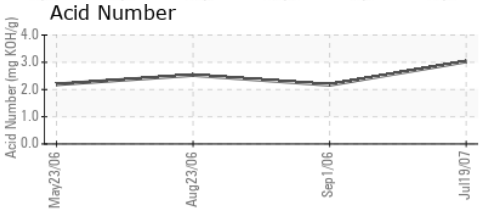
Viscosity @ 100°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM2203525 **Received** : 24 Jul 2007
Lab Number : 01997889 **Diagnosed** : 30 Jul 2007
Unique Number : 4166622 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: Glycol, PrtCount)

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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