MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2008 CHEVROLET 8J99633
Component
Front Diesel Engine
Fluid
MOBIL 15W40 (10 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

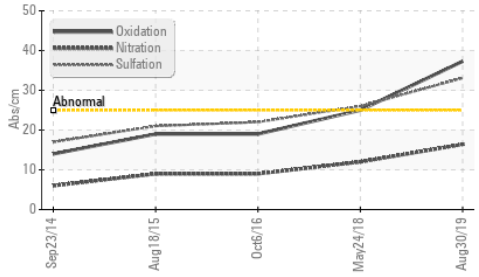
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

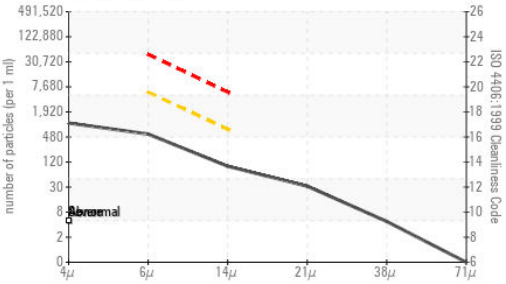
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLM2336173	KLM2335144	KLM2336184
Sample Date		Client Info		30 Aug 2019	24 May 2018	06 Oct 2016
Machine Age	mls	Client Info		84014	73240	63165
Oil Age	mls	Client Info		44058	33284	23209
Filter Age	mls	Client Info		10774	10075	10145
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	82	68	59
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	8	6
Lead	ppm	ASTM D5185m	>40	8	7	4
Copper	ppm	ASTM D5185m	>330	16	16	11
Tin	ppm	ASTM D5185m	>15	2	0	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	27	21	24
Potassium	ppm	ASTM D5185m	>20	8	5	8
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.3	1.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	16.4	12.	9.
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.1	26.	22.
Particles >4µm		ASTM D7647		910	384	2077
Particles >6µm		ASTM D7647	>5000	495	209	1131
Particles >14µm		ASTM D7647	>640	84	35	192
Particles >21µm		ASTM D7647	>160	28	12	65
Particles >38µm		ASTM D7647	>40	4	1	10
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/16	16/14	15/12	17/15
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118	4	2	4
Boron	ppm	ASTM D5185m		34	26	41
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		27	33	46
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		302	389	568
Calcium	ppm	ASTM D5185m		1614	1546	1527
Phosphorus	ppm	ASTM D5185m		756	836	786
Zinc	ppm	ASTM D5185m		899	938	923
Sulfur	ppm	ASTM D5185m		2737	2934	3806
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.3	25.	19.
Base Number (BN)	mg KOH/g	ASTM D2896		5.45	6.15	6.26
Visc @ 100°C	cSt	ASTM D445		13.4	13.94	14.2

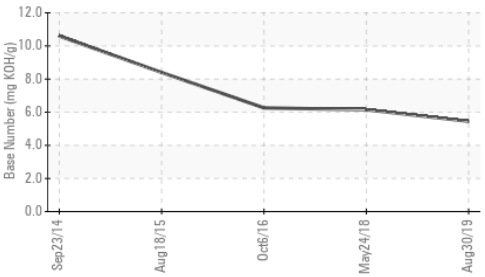
FT-IR (Direct Trend)



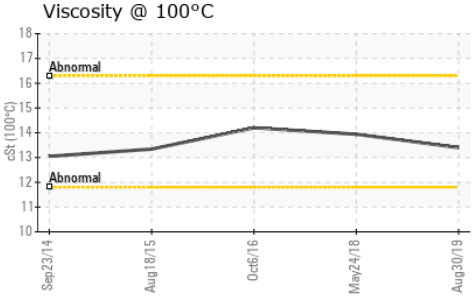
Particle Count



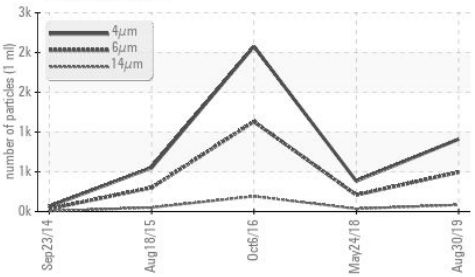
Base Number



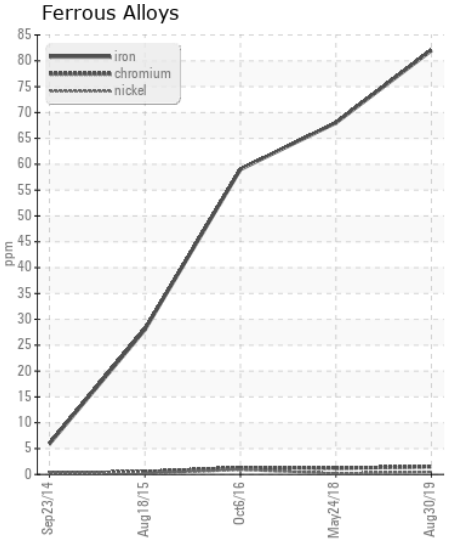
Viscosity @ 100°C



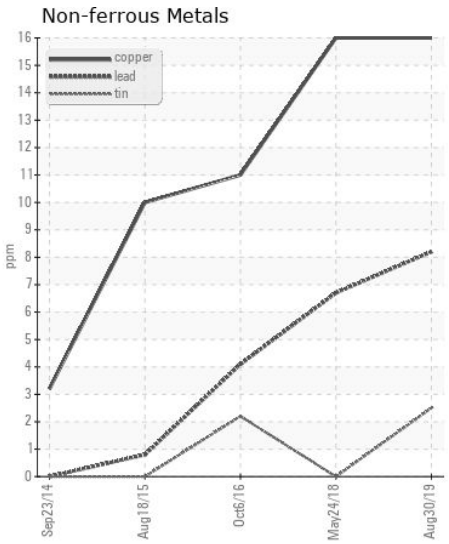
Particle Trend



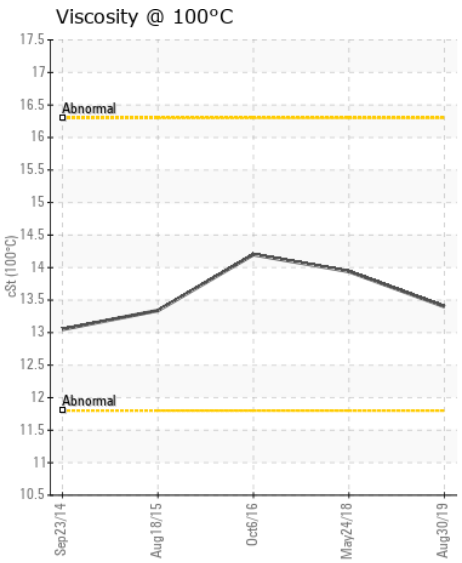
Ferrous Alloys



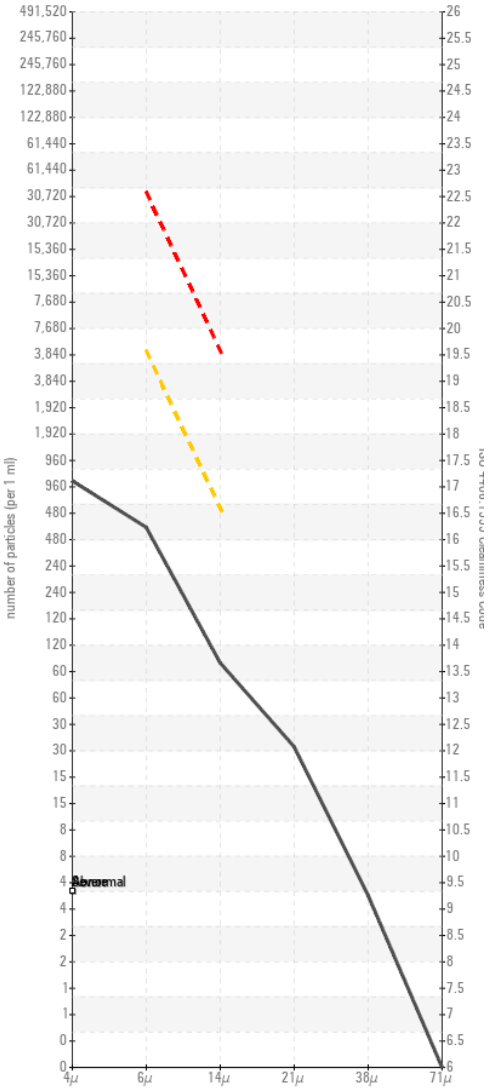
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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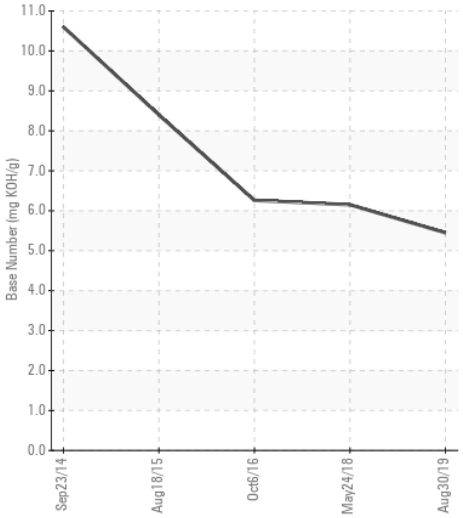

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM2336173
Lab Number : 04792783
Unique Number : 8727636
Test Package : MOB 2 (Additional Tests: PrtCount)
Received : 06 Sep 2019
Tested : 06 Sep 2019
Diagnosed : 06 Sep 2019 - Doug Bogart

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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