MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVROLET 1500 CHEVY
Component
Gasoline Engine
Fluid
OREILLY 0W20 SYNTHETIC (6 QTS)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

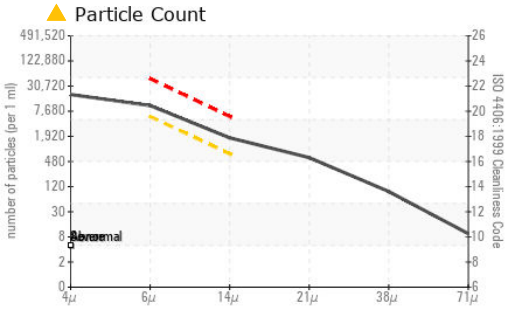
CONTAMINATION

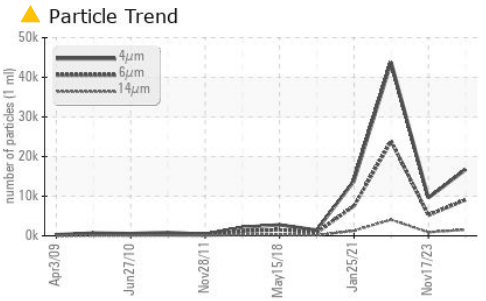
There is a high amount of particulates present in the oil. Light fuel dilution occurring.

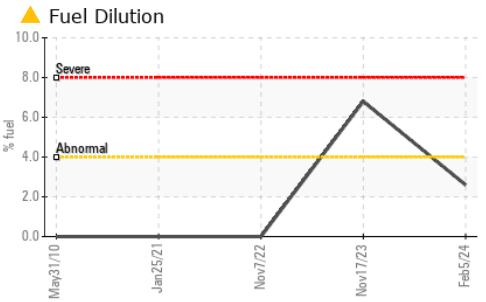
FLUID CONDITION

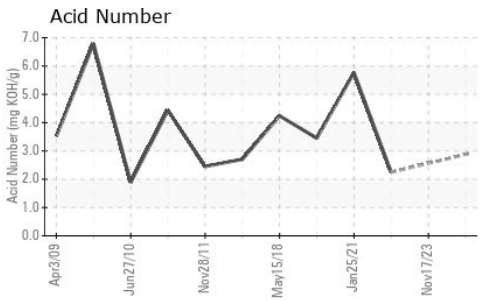
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

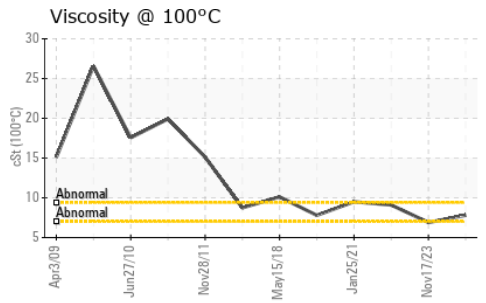
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0011989	KL0007962	KLM2339674
Sample Date		Client Info		05 Feb 2024	17 Nov 2023	07 Nov 2022
Machine Age	mls	Client Info		89172	86475	163500
Oil Age	mls	Client Info		2697	9475	31985
Filter Age	mls	Client Info		2697	9475	31985
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	15	52	67
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		9	10	7
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	2	6	6
Lead	ppm	ASTM D5185m	>50	<1	6	0
Copper	ppm	ASTM D5185m	>155	5	14	5
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	15	32	18
Potassium	ppm	ASTM D5185m	>20	0	4	0
Fuel	%	ASTM D3524	>4.0	▲ 2.6	▲ 6.8	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.9	14.2	15.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	24.9	30.1
Particles >4µm		ASTM D7647		16712	9587	43779
Particles >6µm		ASTM D7647	>5000	▲ 9104	▲ 5223	▲ 23849
Particles >14µm		ASTM D7647	>640	▲ 1549	▲ 889	▲ 4059
Particles >21µm		ASTM D7647	>160	▲ 522	▲ 299	▲ 1367
Particles >38µm		ASTM D7647	>40	▲ 81	▲ 46	▲ 211
Particles >71µm		ASTM D7647	>10	8	5	▲ 22
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/18	▲ 20/17	▲ 22/19
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	>400	2	15	7
Boron	ppm	ASTM D5185m		42	36	43
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		173	45	49
Manganese	ppm	ASTM D5185m		1	3	1
Magnesium	ppm	ASTM D5185m		525	574	747
Calcium	ppm	ASTM D5185m		1234	867	1184
Phosphorus	ppm	ASTM D5185m		629	596	667
Zinc	ppm	ASTM D5185m		709	673	739
Sulfur	ppm	ASTM D5185m		2700	2524	3844
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	23.3	27.7
Acid Number (AN)	mg KOH/g	ASTM D8045		2.88	---	2.25
Base Number (BN)	mg KOH/g	ASTM D2896		---	4.37	---
Visc @ 100°C	cSt	ASTM D445		7.8	▲ 6.9	9.1

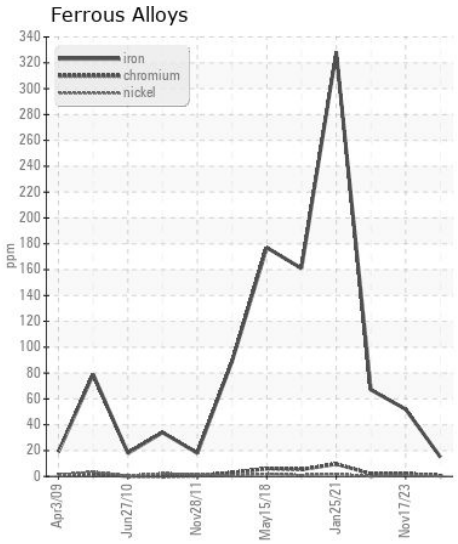


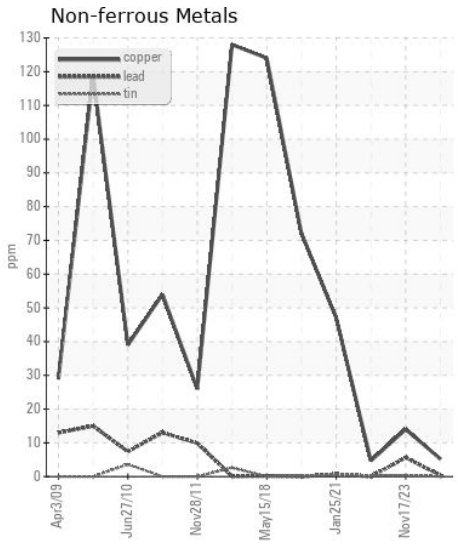


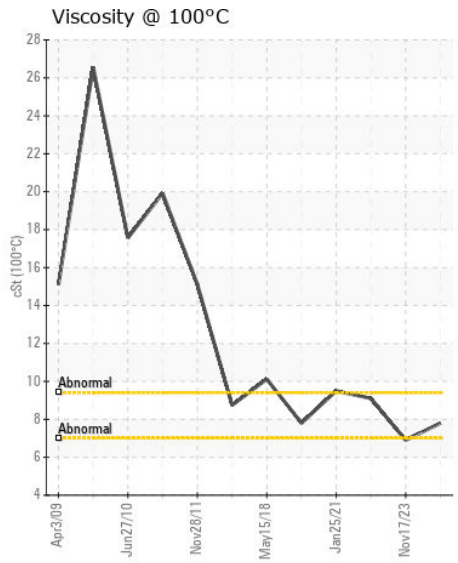


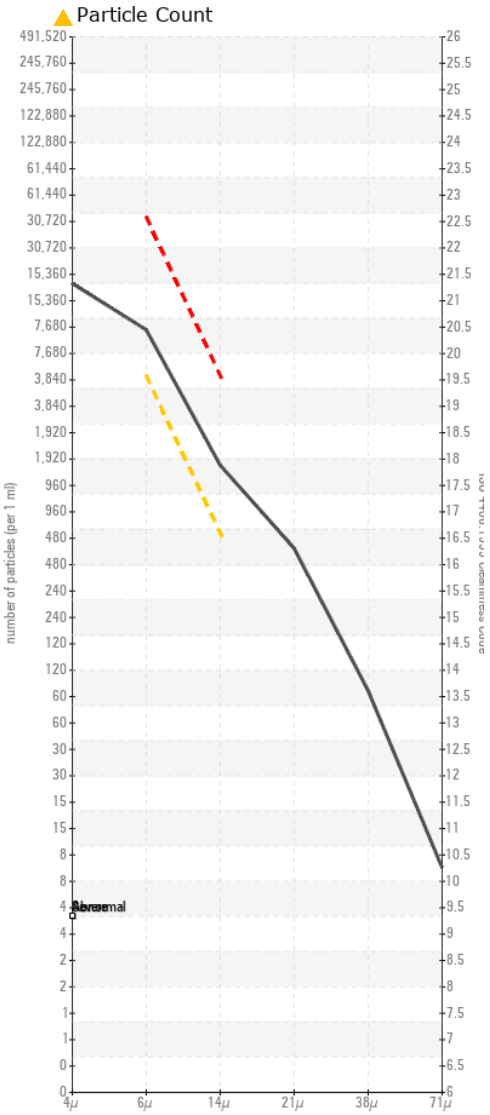


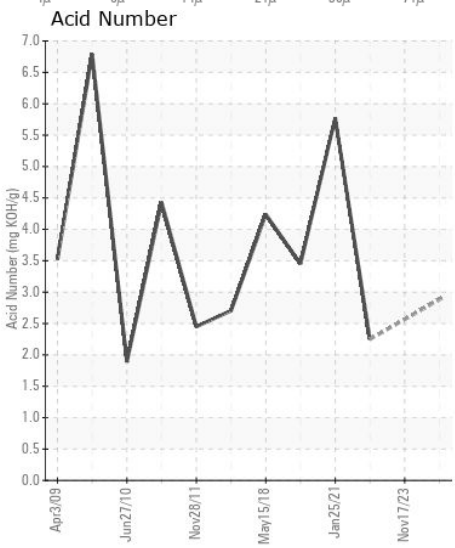












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011989 **Received** : 07 Feb 2024
Lab Number : 06083128 **Tested** : 12 Feb 2024
Unique Number : 10870573 **Diagnosed** : 12 Feb 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel, PrtCount, TBN)

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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