MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

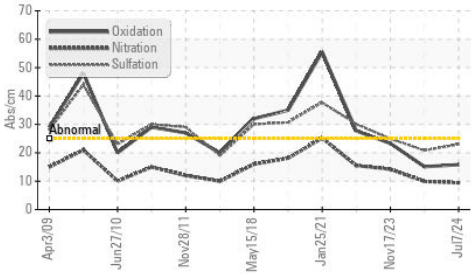
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

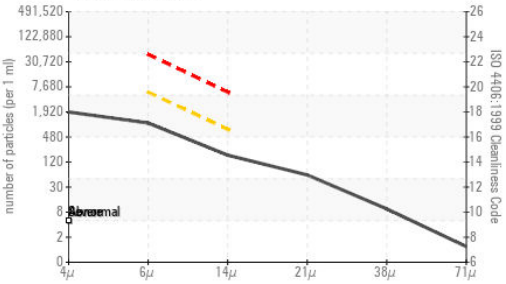
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0008991	KL0011989	KL0007962
Sample Date		Client Info		07 Jul 2024	05 Feb 2024	17 Nov 2023
Machine Age	mls	Client Info		94874	89172	86475
Oil Age	mls	Client Info		4319	2697	9475
Filter Age	mls	Client Info		4319	2697	9475
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	19	15	52
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		1	9	10
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	2	6
Lead	ppm	ASTM D5185m	>50	0	<1	6
Copper	ppm	ASTM D5185m	>155	6	5	14
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	20	15	32
Potassium	ppm	ASTM D5185m	>20	2	0	4
Fuel		WC Method	>4.0	<1.0	▲ 2.6	▲ 6.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.9	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	20.8	24.9
Particles >4µm		ASTM D7647		1670	16712	9587
Particles >6µm		ASTM D7647	>5000	910	▲ 9104	● 5223
Particles >14µm		ASTM D7647	>640	155	▲ 1549	● 889
Particles >21µm		ASTM D7647	>160	52	▲ 522	● 299
Particles >38µm		ASTM D7647	>40	8	▲ 81	● 46
Particles >71µm		ASTM D7647	>10	1	8	5
Oil Cleanliness		ISO 4406 (c)	>19/16	17/14	▲ 20/18	● 20/17
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	4	2	15
Boron	ppm	ASTM D5185m		25	42	36
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		150	173	45
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m		531	525	574
Calcium	ppm	ASTM D5185m		1035	1234	867
Phosphorus	ppm	ASTM D5185m		596	629	596
Zinc	ppm	ASTM D5185m		651	709	673
Sulfur	ppm	ASTM D5185m		3263	2700	2524
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.1	23.3
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65	2.88	---
Base Number (BN)	mg KOH/g	ASTM D2896		---	---	4.37
Visc @ 100°C	cSt	ASTM D445		8.2	7.8	▲ 6.9

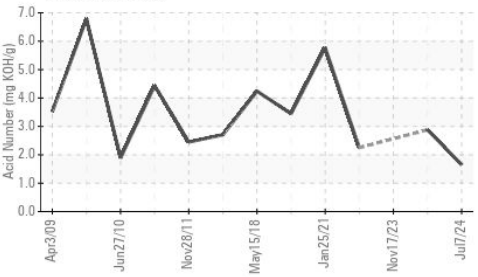
FT-IR (Direct Trend)



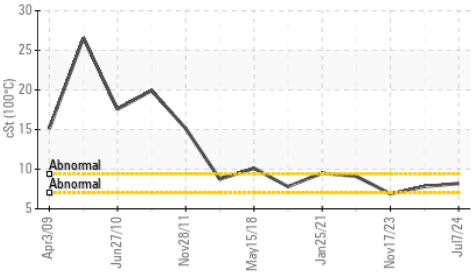
Particle Count



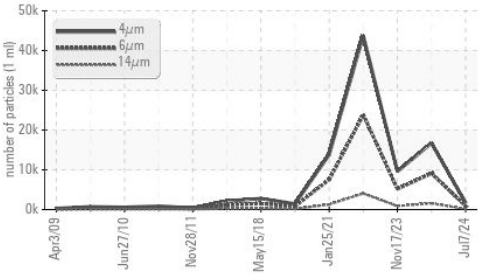
Acid Number



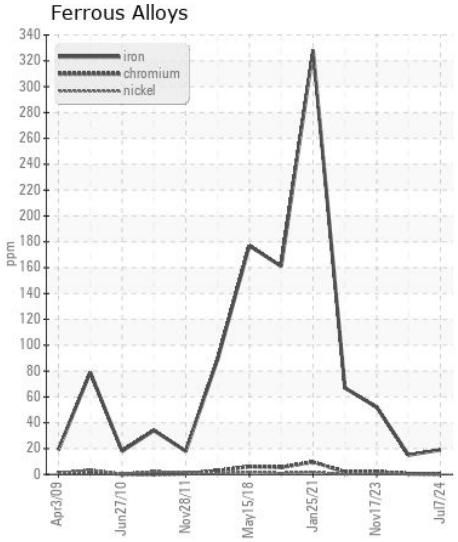
Viscosity @ 100°C



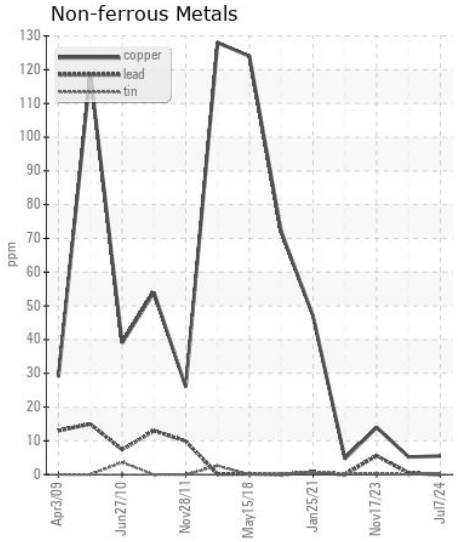
Particle Trend



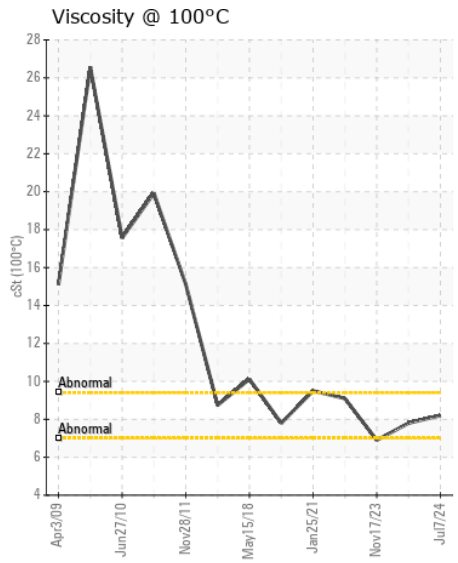
Ferrous Alloys



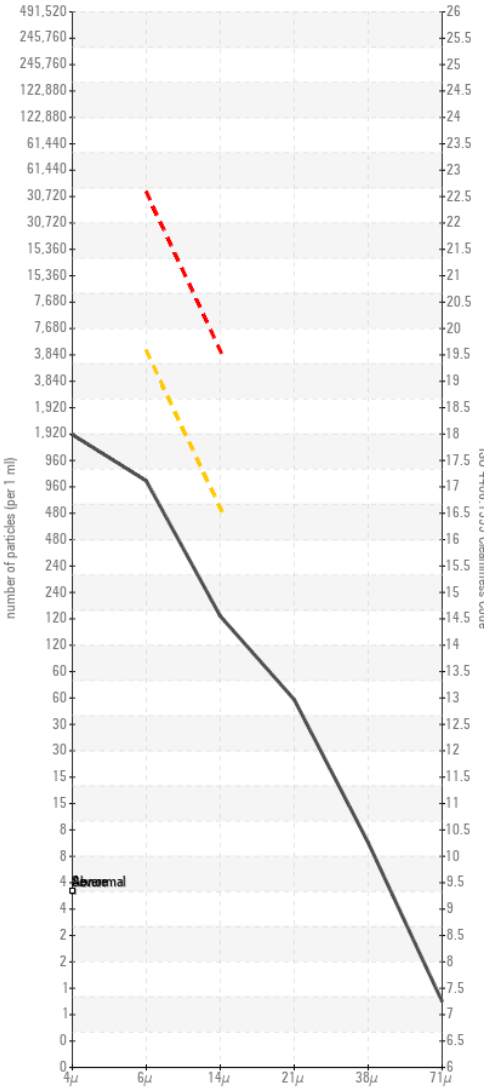
Non-ferrous Metals



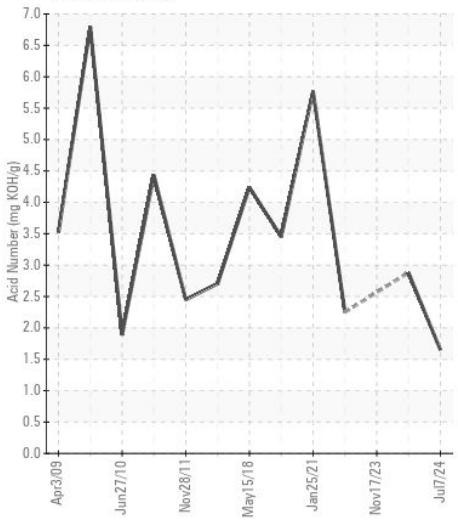
Viscosity @ 100°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0008991
Lab Number : 06235107
Unique Number : 11123941
Test Package : MOB 2 (Additional Tests: PrtCount, TBN)

Received : 12 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Sean Felton

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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