MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
CHEVROLET CHEVROLET SILVERADO
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

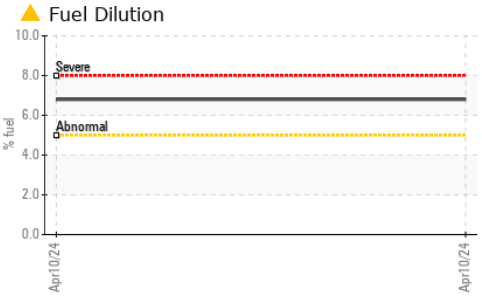
CONTAMINATION

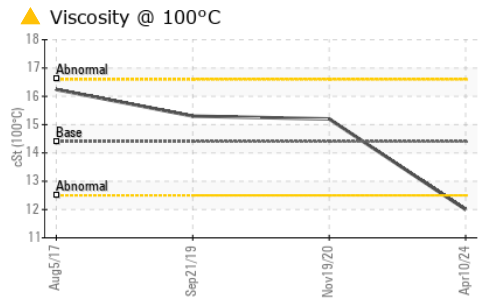
There is a moderate amount of particulates present in the oil. There is a moderate amount of fuel present in the oil.

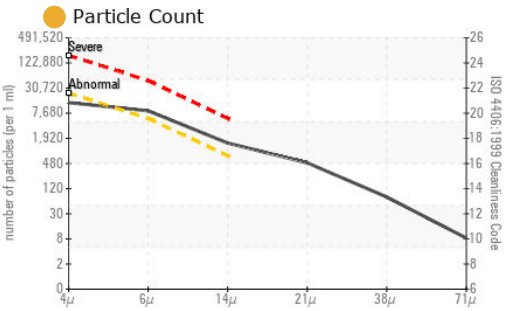
FLUID CONDITION

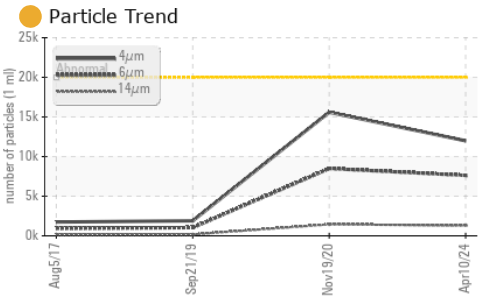
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

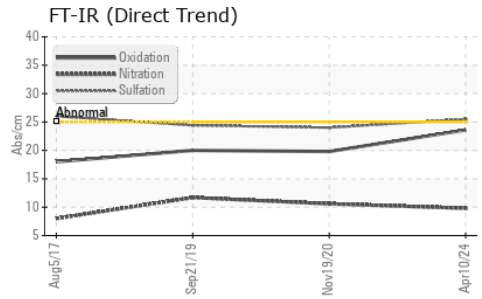
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0690548	WC0450983	KLM2343397
Sample Date		Client Info		10 Apr 2024	19 Nov 2020	21 Sep 2019
Machine Age	mls	Client Info		0	18122	25508
Oil Age	mls	Client Info		7000	18122	25508
Filter Age	mls	Client Info		7000	18122	25508
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	29	66	87
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	5	7
Lead	ppm	ASTM D5185m	>40	<1	10	17
Copper	ppm	ASTM D5185m	>330	4	4	8
Tin	ppm	ASTM D5185m	>15	1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	7	14
Potassium	ppm	ASTM D5185m	>20	5	3	18
Fuel	%	ASTM D3524	>5	▲ 6.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.6	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	24	24.4
Particles >4µm		ASTM D7647	>20000	11989	15595	1897
Particles >6µm		ASTM D7647	>5000	● 7621	▲ 8496	1033
Particles >14µm		ASTM D7647	>640	● 1297	▲ 1446	176
Particles >21µm		ASTM D7647	>160	● 437	▲ 487	59
Particles >38µm		ASTM D7647	>40	● 67	▲ 75	9
Particles >71µm		ASTM D7647	>10	7	8	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 21/20/17	▲ 21/20/18	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	>158	2	2	3
Boron	ppm	ASTM D5185m	250	287	3	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	65	66	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	277	959	976
Calcium	ppm	ASTM D5185m	3000	1426	1300	1217
Phosphorus	ppm	ASTM D5185m	1150	934	997	875
Zinc	ppm	ASTM D5185m	1350	1063	1352	1185
Sulfur	ppm	ASTM D5185m	4250	4107	3619	2628
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	19.8	20
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.19	8.08	7.62
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 12.0	15.2	15.3

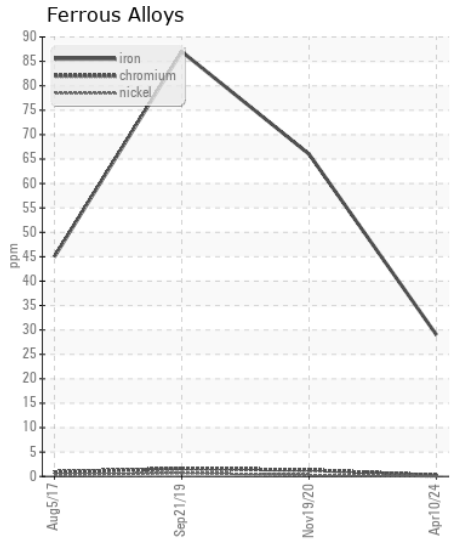


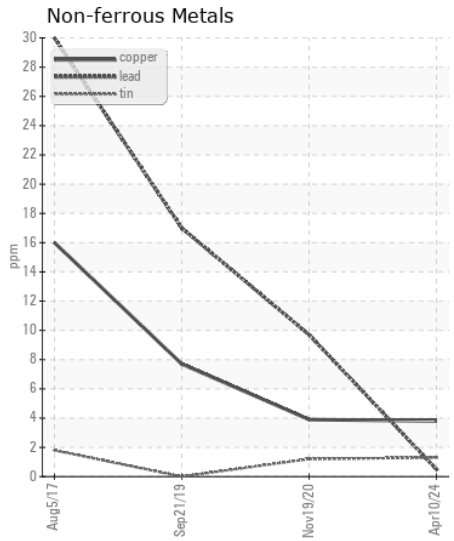


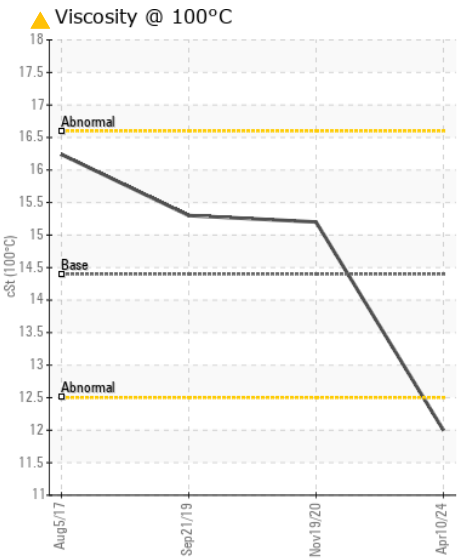


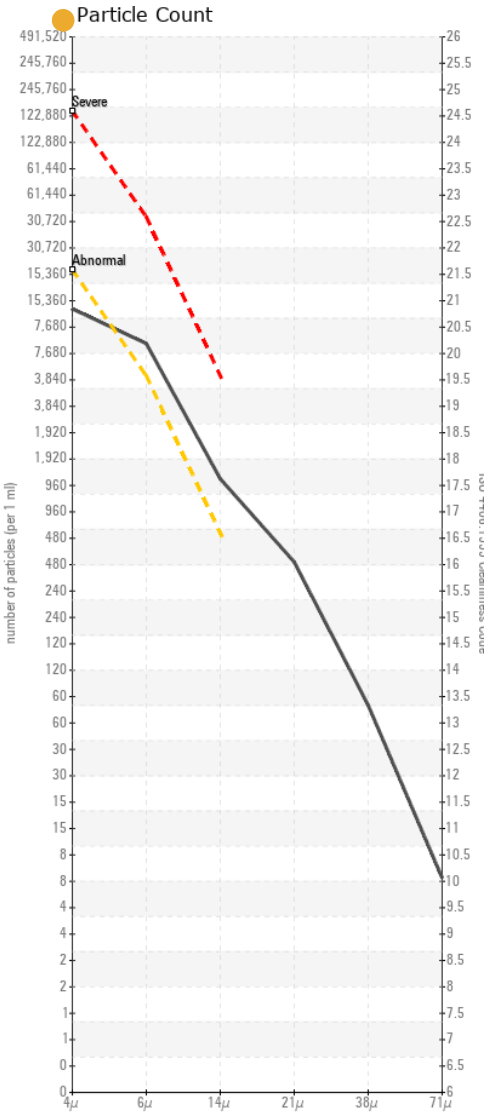


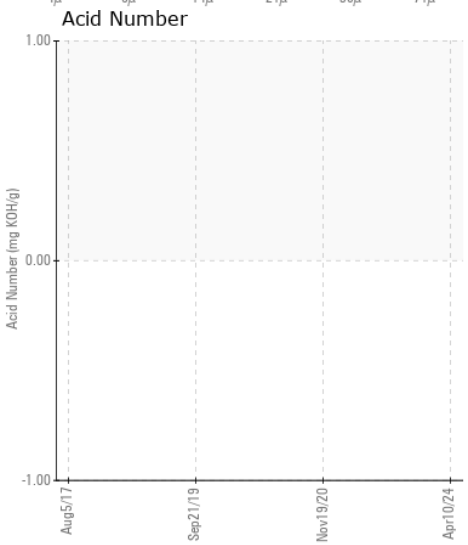












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0690548
Lab Number : 06149582
Unique Number : 10979660
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount, TAN Man

Received : 15 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Don Baldridge

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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