



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVROLET 12346
 Component
Gasoline Engine
 Fluid
CHEVRON SUPREME MOTOR OIL 5W30 (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0950576	WC0924524	WC0882875
Sample Date		Client Info		02 Jul 2024	10 Apr 2024	11 Jan 2024
Machine Age	mls	Client Info		277995	271131	265072
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	23	17	20
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	6	4	5
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	5	0	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

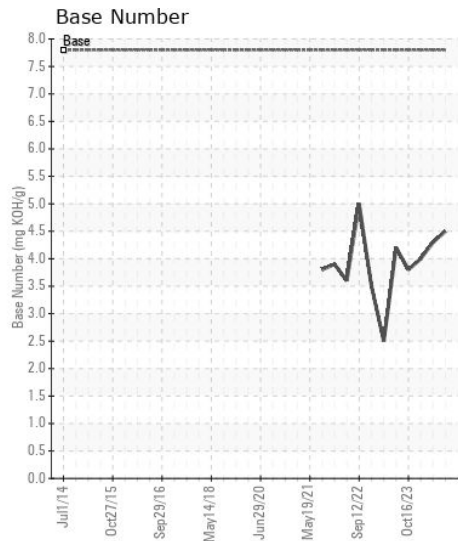
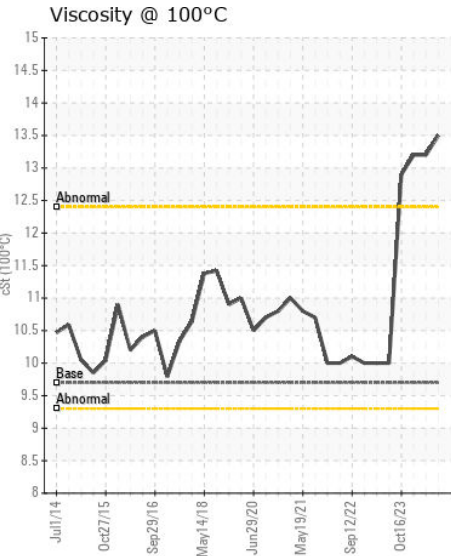
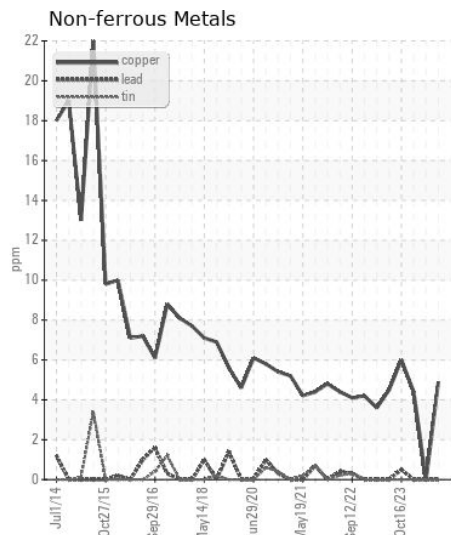
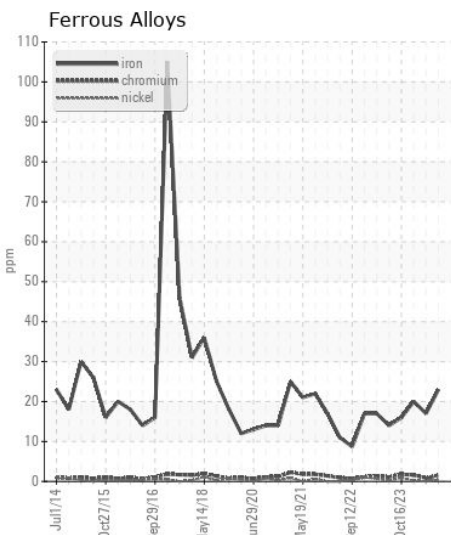
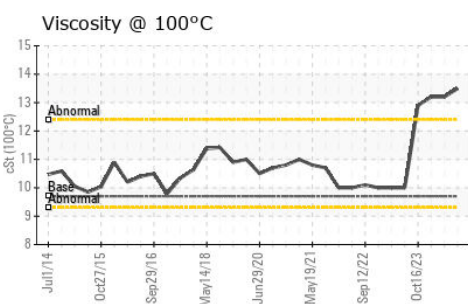
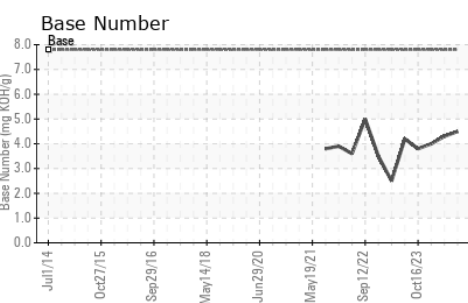
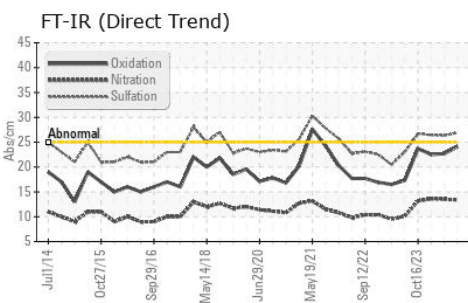
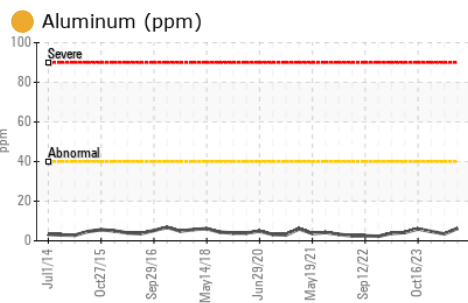
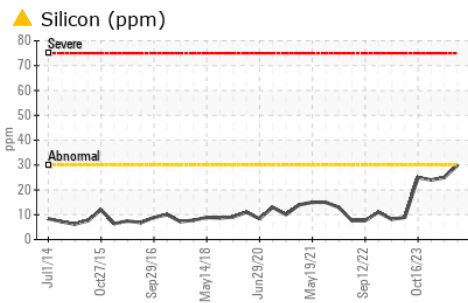
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>30	30	25	24
Potassium	ppm	ASTM D5185m	>20	5	1	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	13.4	13.5	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	26.3	26.4
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>400	5	2	4
Boron	ppm	ASTM D5185m		23	20	32
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		9	9	19
Manganese	ppm	ASTM D5185m		15	4	3
Magnesium	ppm	ASTM D5185m		851	716	703
Calcium	ppm	ASTM D5185m		1512	1278	1280
Phosphorus	ppm	ASTM D5185m	780	824	701	727
Zinc	ppm	ASTM D5185m	860	990	776	852
Sulfur	ppm	ASTM D5185m		3090	2947	2768
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	22.7	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	4.5	4.3	4.0
Visc @ 100°C	cSt	ASTM D445	9.7	13.5	13.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0950576 **Received** : 03 Jul 2024
Lab Number : 06227052 **Tested** : 05 Jul 2024
Unique Number : 11110545 **Diagnosed** : 05 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

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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)