



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3162
 Component
Diesel Engine
 Fluid
CHEVRON SUPREME MOTOR OIL 10W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906907	WC0906937	WC0863323
Sample Date		Client Info		15 Apr 2024	19 Feb 2024	20 Nov 2023
Machine Age	mls	Client Info		212022	159962	144254
Oil Age	mls	Client Info		189530	116069	116069
Filter Age	mls	Client Info		22492	43893	28185
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	43	15
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	14	6
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	8	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

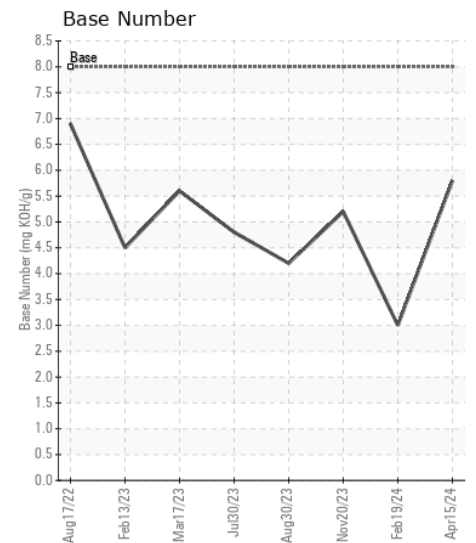
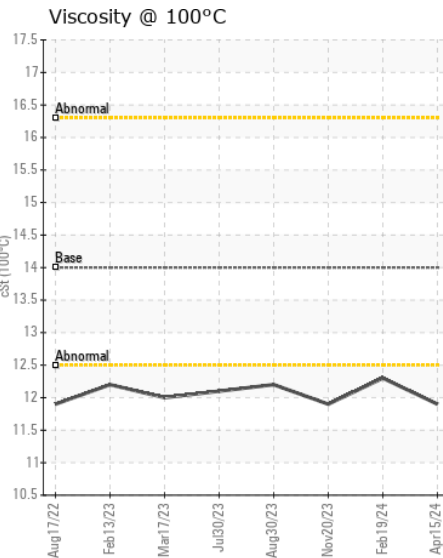
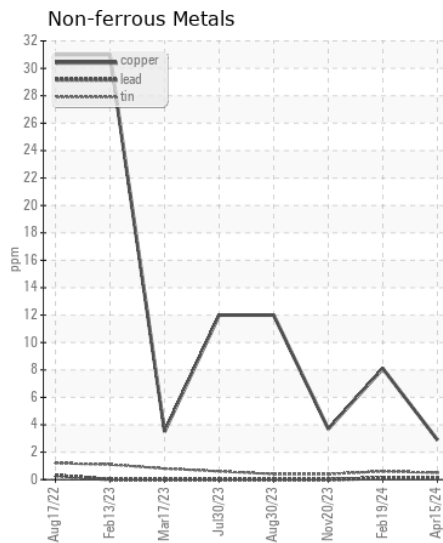
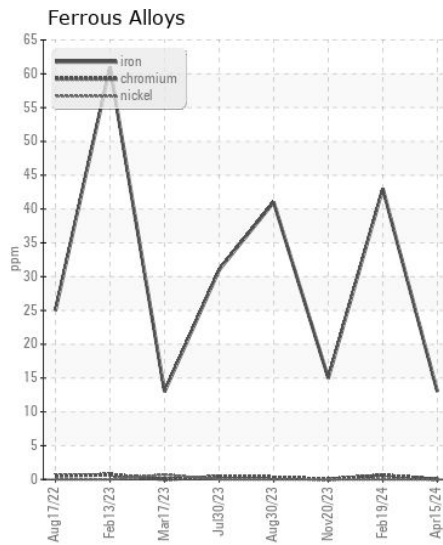
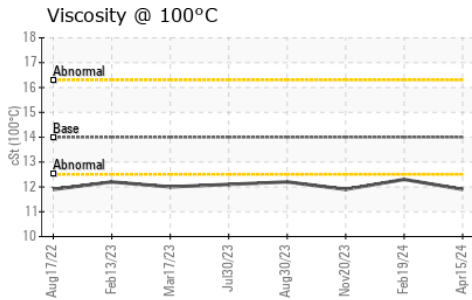
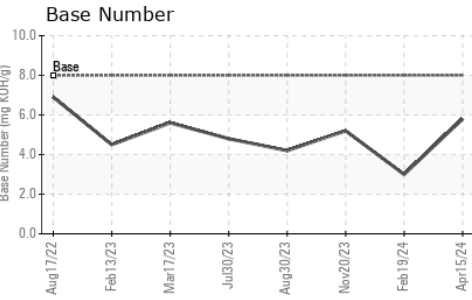
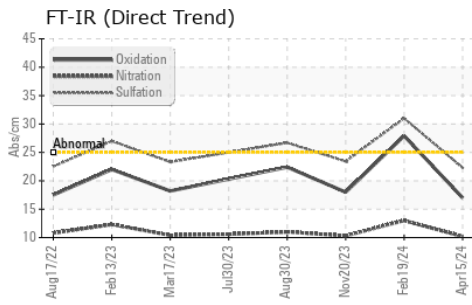
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	17	9
Potassium	ppm	ASTM D5185m	>20	8	18	9
Fuel	%	ASTM D3524	>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	0.6	1.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.2	13.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	31.0	23.4
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 suitable for further service.

Sodium	ppm	ASTM D5185m		4	5	2
Boron	ppm	ASTM D5185m		28	22	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	14	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		786	787	805
Calcium	ppm	ASTM D5185m		1354	1434	1485
Phosphorus	ppm	ASTM D5185m	990	771	744	774
Zinc	ppm	ASTM D5185m	1100	847	809	886
Sulfur	ppm	ASTM D5185m		3530	2680	2886
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	27.9	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	5.8	▲ 3.0	5.2
Visc @ 100°C	cSt	ASTM D445	14.0	11.9	12.3	11.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906907 **Received** : 18 Apr 2024
Lab Number : 06153755 **Tested** : 23 Apr 2024
Unique Number : 10983833 **Diagnosed** : 23 Apr 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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