



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id

3184

Component

Diesel Engine

Fluid

CHEVRON SUPREME MOTOR OIL 10W40 (--- QTS)

RECOMMENDATION

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		WC0906940	WC0663225	WC0663198
Sample Date		Client Info		17 Feb 2024	06 Feb 2024	12 Nov 2023
Machine Age	mls	Client Info		157249	151870	116500
Oil Age	mls	Client Info		102257	49232	102638
Filter Age	mls	Client Info		54992	49232	13862
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	37	34	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	2	4	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	13	13	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	8	13	5
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

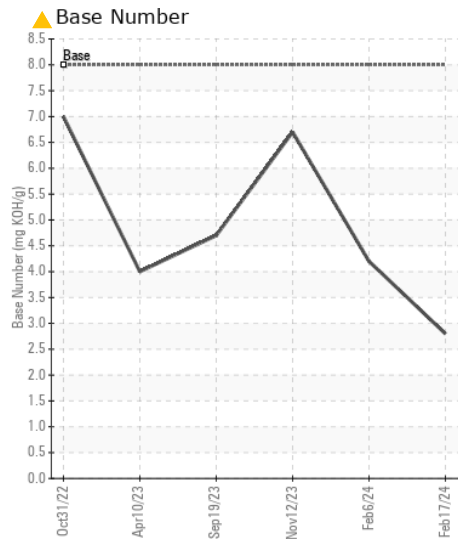
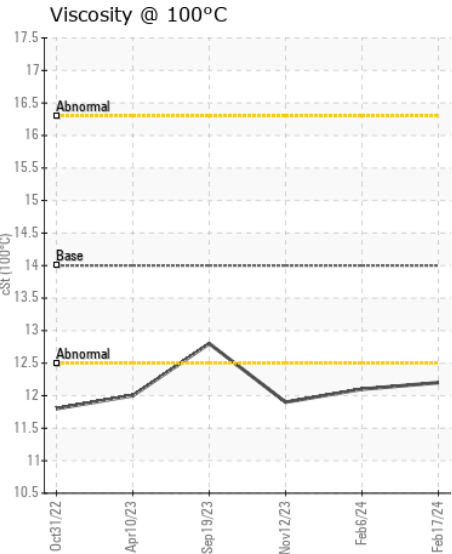
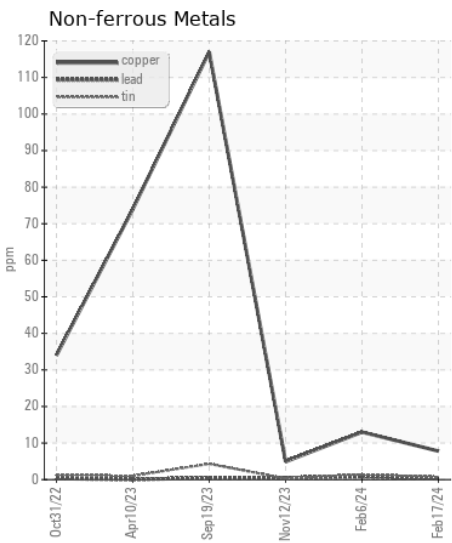
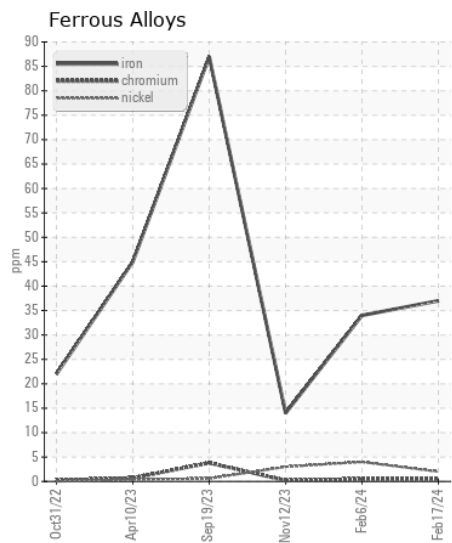
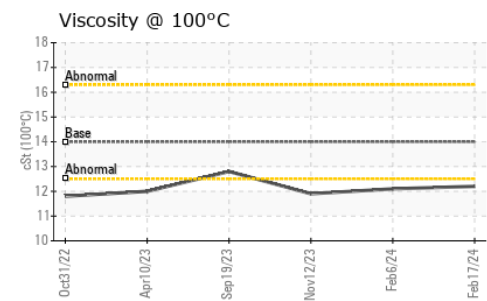
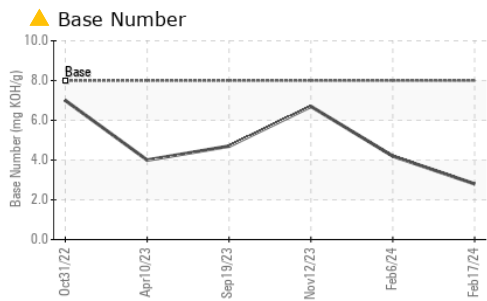
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	12	8
Potassium	ppm	ASTM D5185m	>20	15	18	11
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	1.1	1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.0	11.7	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	27.3	20.6
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 level is low. Confirm oil type.

Sodium	ppm	ASTM D5185m		6	0	<1
Boron	ppm	ASTM D5185m		14	15	48
Barium	ppm	ASTM D5185m		0	13	9
Molybdenum	ppm	ASTM D5185m		1	3	4
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		752	778	724
Calcium	ppm	ASTM D5185m		1384	1415	1326
Phosphorus	ppm	ASTM D5185m	990	729	765	742
Zinc	ppm	ASTM D5185m	1100	794	896	837
Sulfur	ppm	ASTM D5185m		2668	3349	3249
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	22.7	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	2.8	4.2	6.7
Visc @ 100°C	cSt	ASTM D445	14.0	12.2	12.1	11.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906940 **Received** : 26 Feb 2024
Lab Number : 06099568 **Tested** : 27 Feb 2024
Unique Number : 10897798 **Diagnosed** : 27 Feb 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

LTI/MILKY WAY - SUNNYSIDE
 333 MIDVALE RD
 SUNNYSIDE, WA
 US 98944
 Contact: JERRY CRISP
 jcrisp@ltii.lynden.com
 T: (509)839-5844
 F: (509)839-6556

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)