



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**T-1964**  
Component  
**Front Diesel Engine**  
Fluid  
**CHEVRON DELO 400 SDE SAE 15W40 (48 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0876897</b>	WC0829039	WC0829033
Sample Date		Client Info		<b>09 Feb 2024</b>	17 Oct 2023	21 Jun 2023
Machine Age	mls	Client Info		<b>523379</b>	497680	27000
Oil Age	mls	Client Info		<b>30000</b>	20000	27000
Filter Age	mls	Client Info		<b>30000</b>	20000	27000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>71</b>	35	27
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>20</b>	8	4
Lead	ppm	ASTM D5185m	>45	<b>21</b>	9	3
Copper	ppm	ASTM D5185m	>85	<b>2</b>	1	0
Tin	ppm	ASTM D5185m	>4	<b>4</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

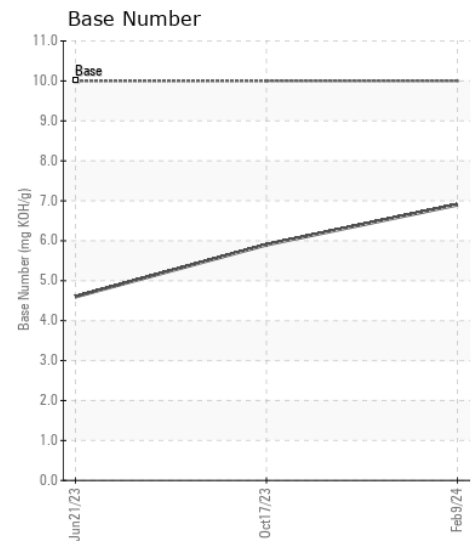
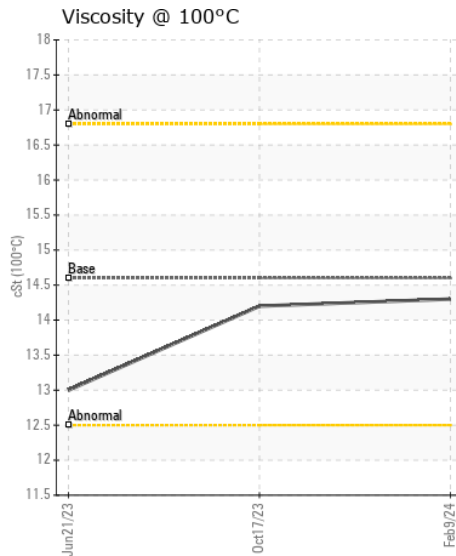
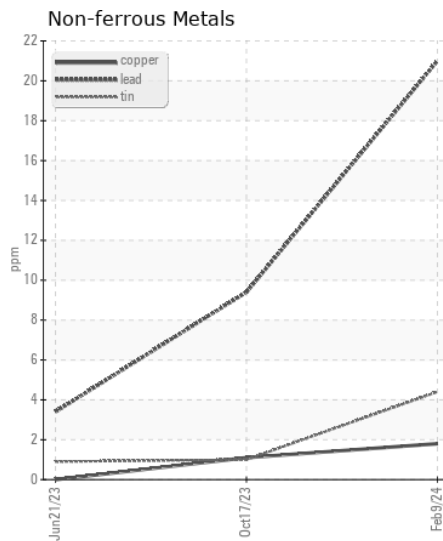
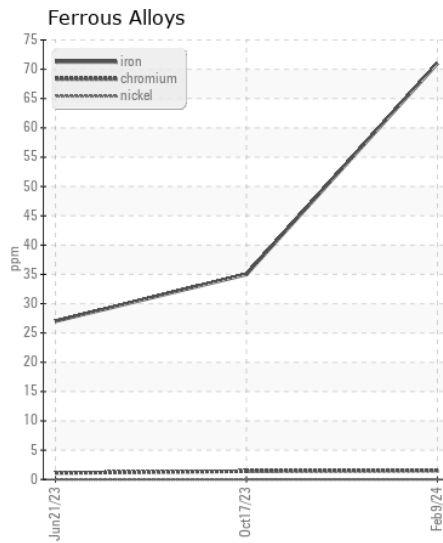
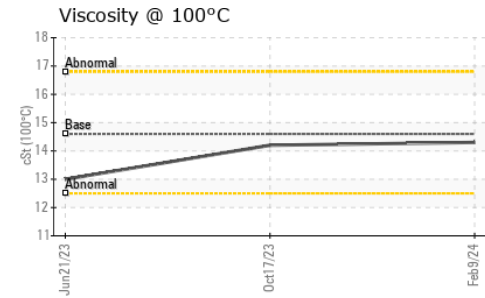
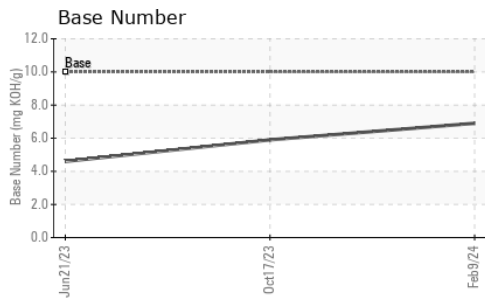
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>9</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	7	8
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	13.2	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.5</b>	30.8	30.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>2</b>	1	1
Boron	ppm	ASTM D5185m		<b>128</b>	108	75
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>135</b>	105	25
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>702</b>	574	133
Calcium	ppm	ASTM D5185m		<b>1720</b>	1889	2382
Phosphorus	ppm	ASTM D5185m	760	<b>771</b>	823	1067
Zinc	ppm	ASTM D5185m	800	<b>957</b>	1055	1339
Sulfur	ppm	ASTM D5185m	3000	<b>2526</b>	2733	4131
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	29.1	31.7
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>6.9</b>	5.9	4.6
Visc @ 100°C	cSt	ASTM D445	14.6	<b>14.3</b>	14.2	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0876897

**Lab Number** : 06097479

**Unique Number** : 10890332

**Test Package** : FLEET

**Received** : 22 Feb 2024

**Tested** : 23 Feb 2024

**Diagnosed** : 24 Feb 2024 - Don Baldrige

**Ergon Trucking Inc. - MER606**

944 New Castle - Mercer Road

Mercer, PA

US 16137

Contact: JASON JULIAN

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)

T:

F: