



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**766**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0844109</b>	WC0844196	WC0707349
Sample Date		Client Info		<b>16 Jun 2024</b>	14 Dec 2023	01 Dec 2022
Machine Age	hrs	Client Info		<b>11353</b>	177169	9421
Oil Age	hrs	Client Info		<b>450</b>	6150	450
Filter Age	hrs	Client Info		<b>450</b>	6150	450
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	>100	<b>27</b>	18	41
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	2	6
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	3
Copper	ppm	ASTM D5185m	>330	<b>3</b>	2	3
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

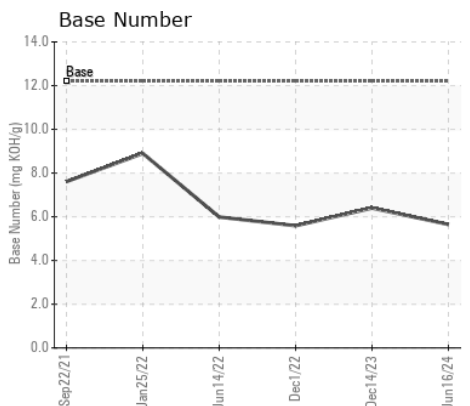
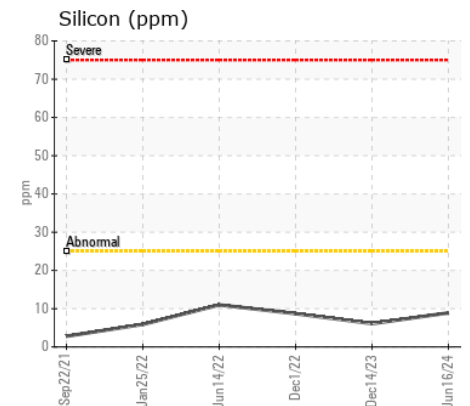
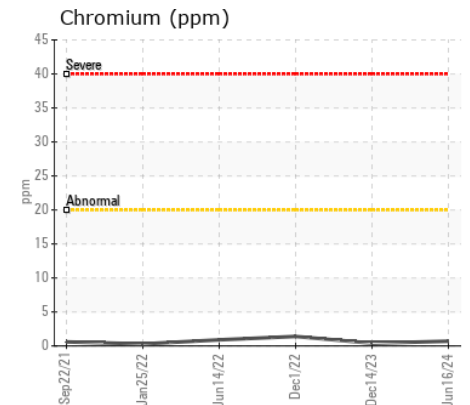
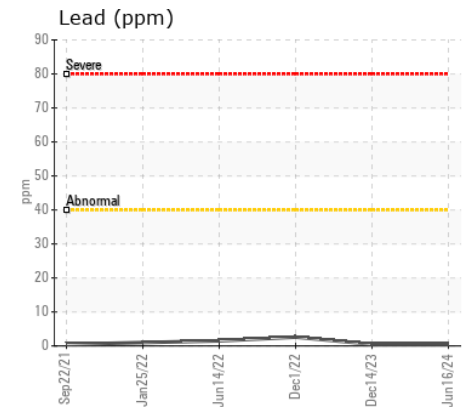
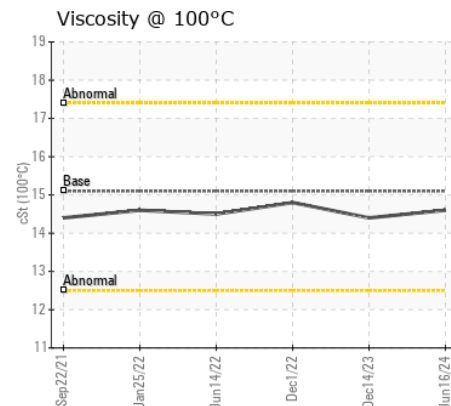
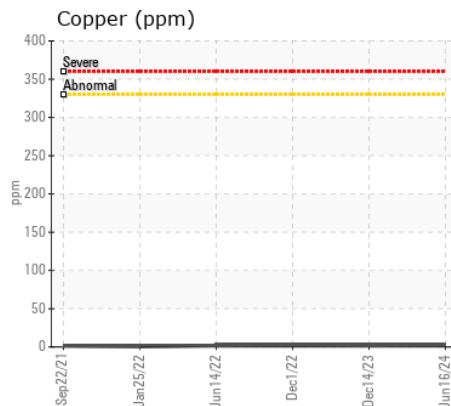
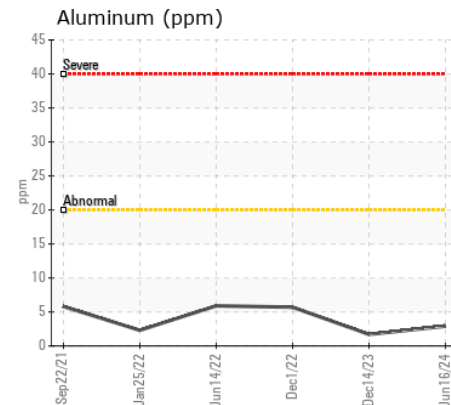
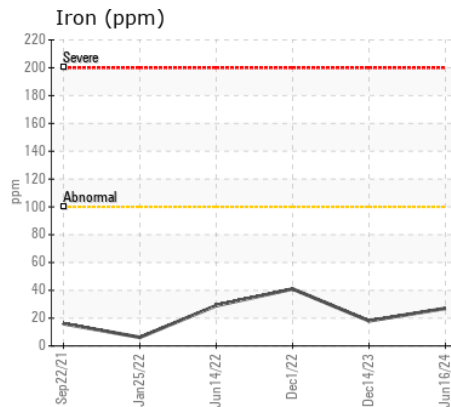
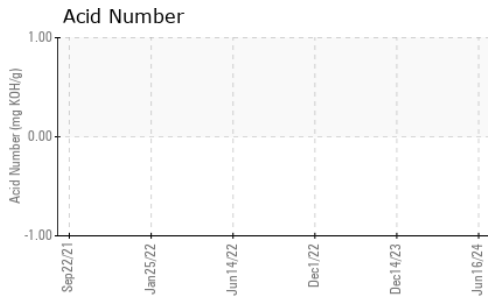
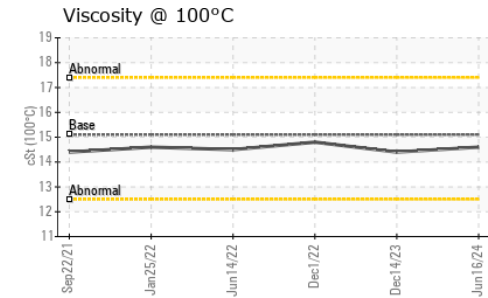
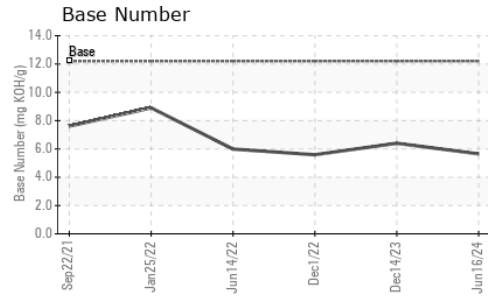
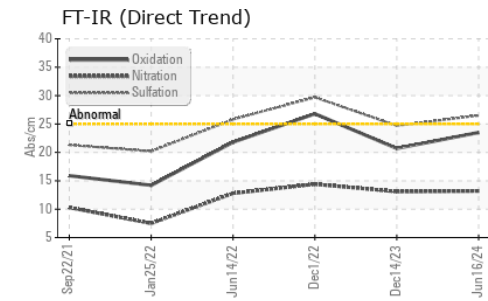
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	6	9
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	5	7
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>0.8</b>	0.8	1.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.2</b>	13.1	14.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.5</b>	24.7	29.7
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>5</b>	0	4
Boron	ppm	ASTM D5185m		<b>30</b>	33	31
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	5	9
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>782</b>	702	750
Calcium	ppm	ASTM D5185m		<b>1421</b>	1326	1488
Phosphorus	ppm	ASTM D5185m	1360	<b>779</b>	716	782
Zinc	ppm	ASTM D5185m	1480	<b>887</b>	850	917
Sulfur	ppm	ASTM D5185m		<b>3554</b>	2879	3520
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.5</b>	20.7	26.8
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>5.65</b>	6.40	5.59
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	14.4	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0844109 **Received** : 17 Jun 2024  
**Lab Number** : 06211954 **Tested** : 19 Jun 2024  
**Unique Number** : 11084818 **Diagnosed** : 19 Jun 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

**LYNDEN TRANSPORT - FIFE**  
 5410 12TH STREET EAST  
 FIFE, WA  
 US 98424

Contact: CHESTER ANGLEMYER  
 chestera@ltia.lynden.com

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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