



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 756**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (18 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0844148</b>	WC0778913	WC0707363
Sample Date		Client Info		<b>02 May 2024</b>	16 Jun 2023	05 Jan 2023
Machine Age	hrs	Client Info		<b>11176</b>	9751	9119
Oil Age	hrs	Client Info		<b>450</b>	450	450
Filter Age	hrs	Client Info		<b>450</b>	450	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>26</b>	48	24
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	5	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	7	6
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>3</b>	6	3
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

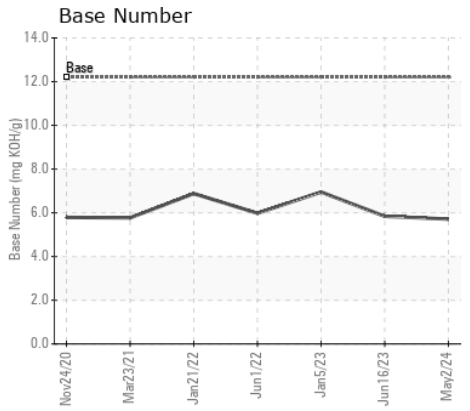
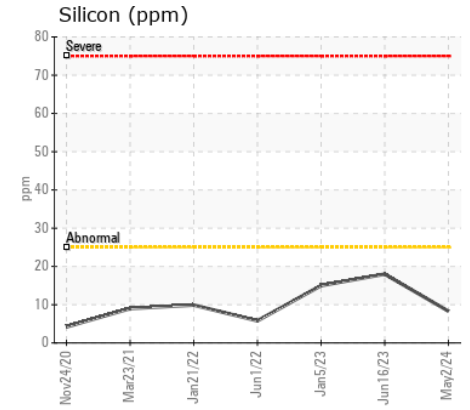
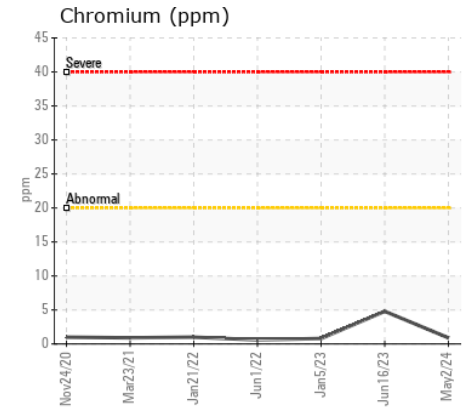
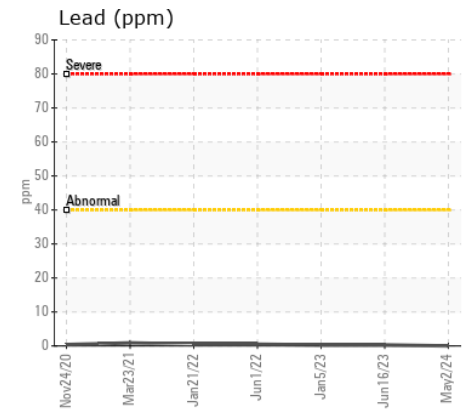
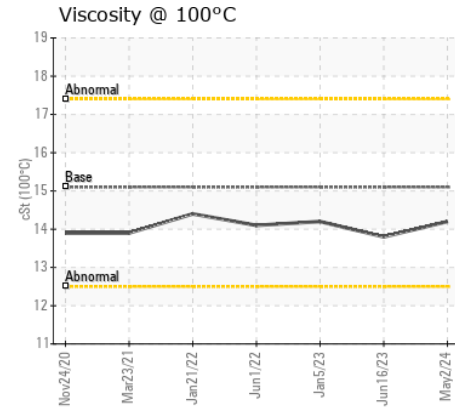
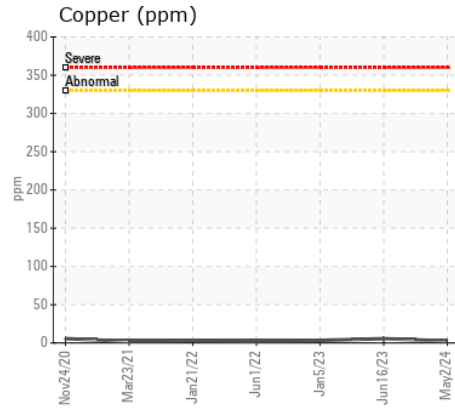
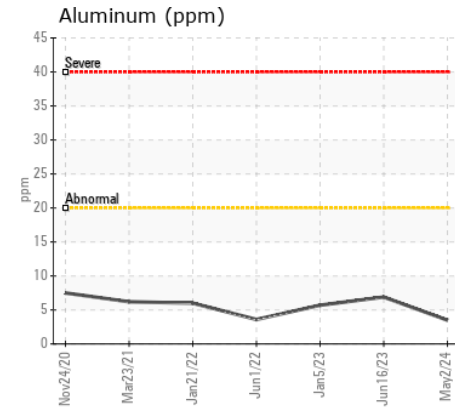
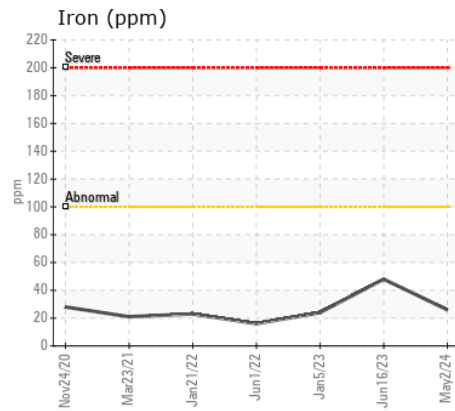
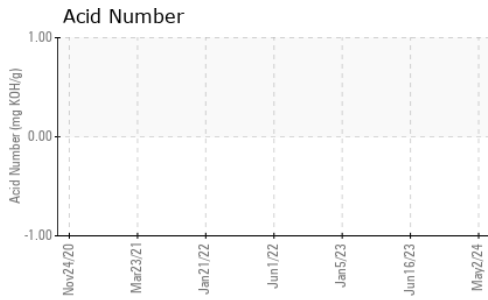
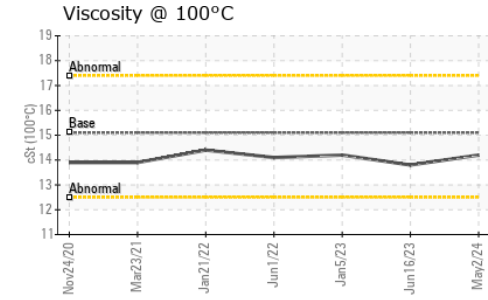
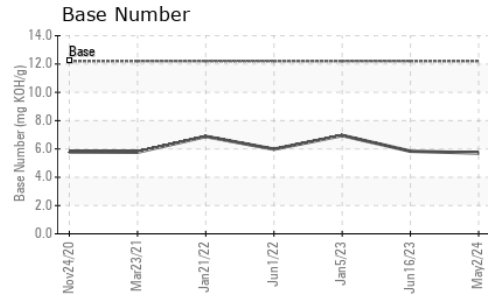
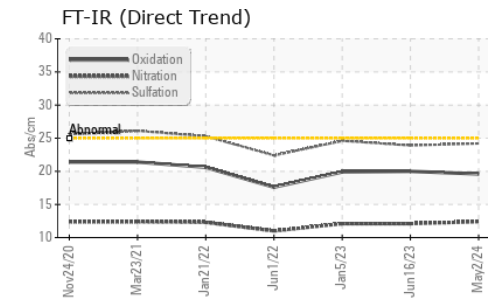
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	18	15
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	8	6
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>0.6</b>	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	12.1	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	23.9	24.6
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>4</b>	1	3
Boron	ppm	ASTM D5185m		<b>35</b>	45	35
Barium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	5	7
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>770</b>	826	686
Calcium	ppm	ASTM D5185m		<b>1392</b>	1599	1329
Phosphorus	ppm	ASTM D5185m	1360	<b>750</b>	824	647
Zinc	ppm	ASTM D5185m	1480	<b>851</b>	997	815
Sulfur	ppm	ASTM D5185m		<b>3550</b>	3840	3286
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.6</b>	20.0	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>5.71</b>	5.84	6.95
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.2</b>	13.8	14.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0844148 **Received** : 17 Jun 2024  
**Lab Number** : 06211961 **Tested** : 19 Jun 2024  
**Unique Number** : 11084825 **Diagnosed** : 19 Jun 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

**LYNDEN TRANSPORT - FIFE**  
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Certificate L2367  
 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)