



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 3943**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 10W30 (40 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0906916</b>	WC0863335	WC0663234
Sample Date		Client Info		<b>17 Apr 2024</b>	31 Dec 2023	20 Sep 2023
Machine Age	mls	Client Info		<b>392435</b>	380816	368919
Oil Age	mls	Client Info		<b>38462</b>	353807	15112
Filter Age	mls	Client Info		<b>38462</b>	27009	15112
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>29</b>	18	16
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	6	1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>330	<b>6</b>	3	108
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	3
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

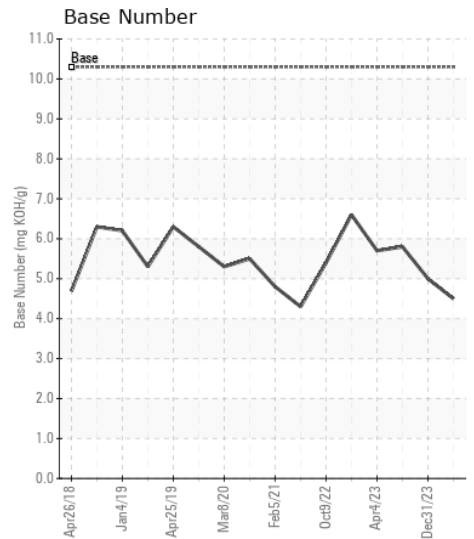
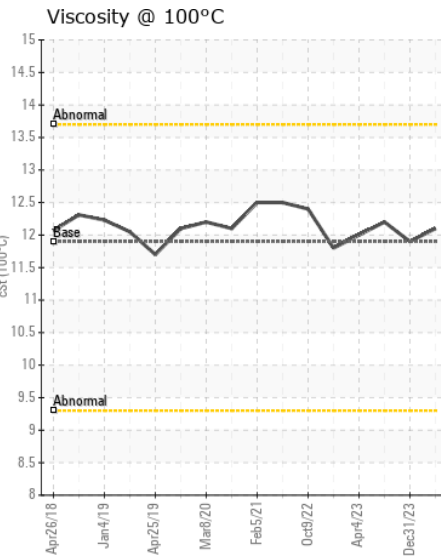
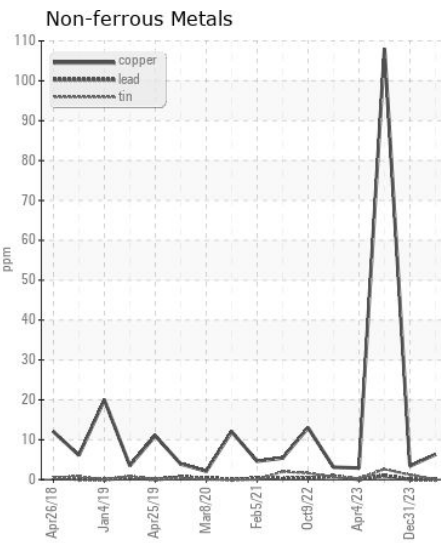
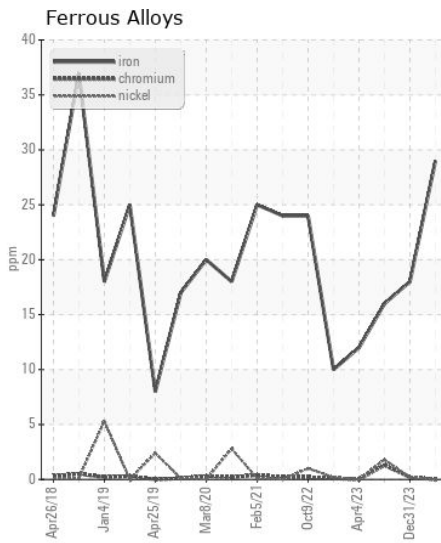
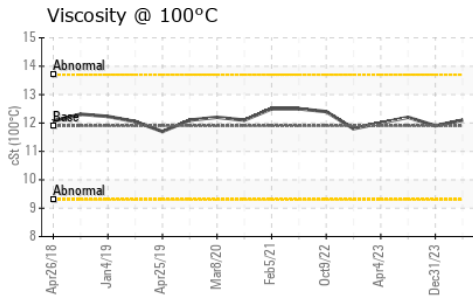
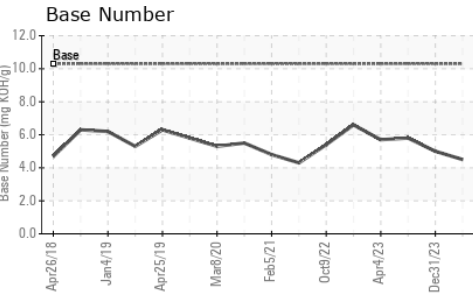
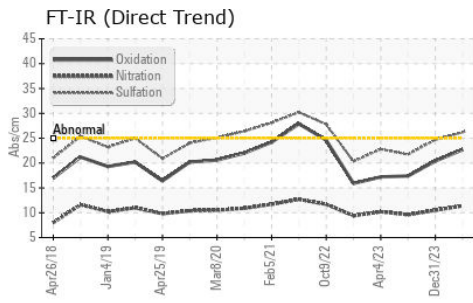
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	7	2
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>0.7</b>	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	10.5	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	24.7	21.7
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>9</b>	6	5
Boron	ppm	ASTM D5185m		<b>26</b>	24	33
Barium	ppm	ASTM D5185m		<b>0</b>	10	0
Molybdenum	ppm	ASTM D5185m		<b>7</b>	2	49
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>815</b>	705	484
Calcium	ppm	ASTM D5185m	2900	<b>1489</b>	1314	1824
Phosphorus	ppm	ASTM D5185m	1100	<b>781</b>	778	944
Zinc	ppm	ASTM D5185m	1200	<b>882</b>	788	1146
Sulfur	ppm	ASTM D5185m	4000	<b>3601</b>	3393	2894
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.7</b>	20.4	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>4.5</b>	5.0	5.8
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.1</b>	11.9	12.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0906916  
**Lab Number** : 06159704  
**Unique Number** : 10995127  
**Test Package** : FLEET

**Received** : 24 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Wes Davis

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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)