



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 3049**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0906922</b>	WC0863302	WC0663192
Sample Date		Client Info		<b>08 Mar 2024</b>	02 Dec 2023	02 Nov 2023
Machine Age	mls	Client Info		<b>495783</b>	488519	476734
Oil Age	mls	Client Info		<b>34162</b>	461621	15113
Filter Age	mls	Client Info		<b>34162</b>	26898	15113
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</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>20</b>	12	7
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	6	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>11</b>	6	9
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

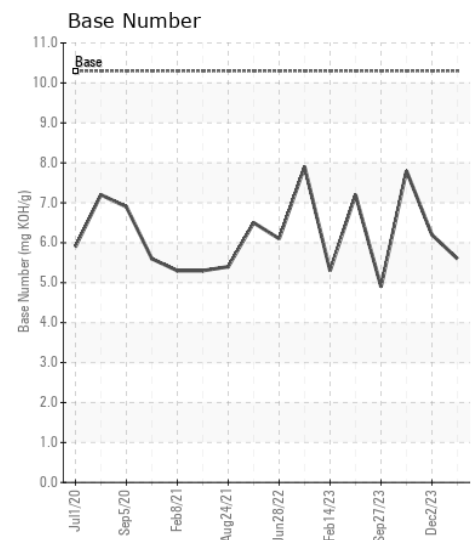
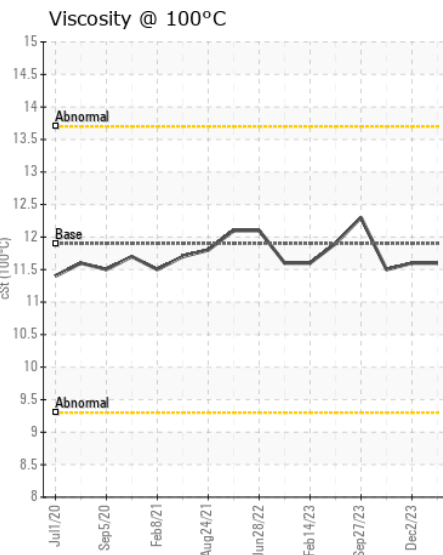
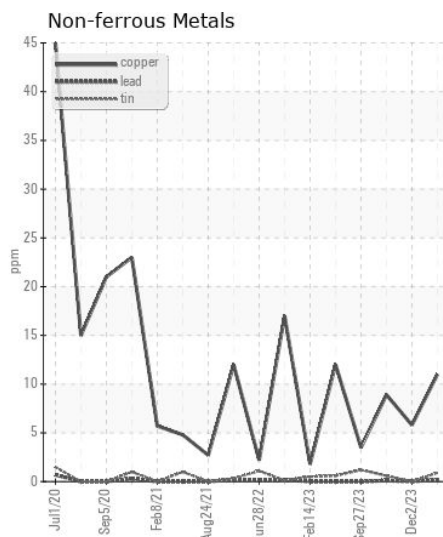
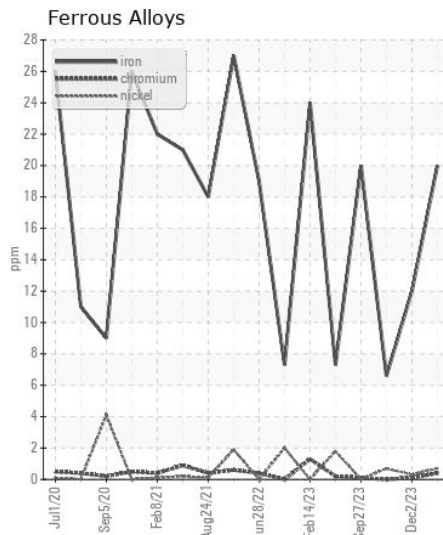
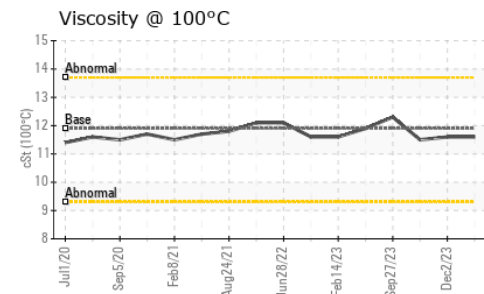
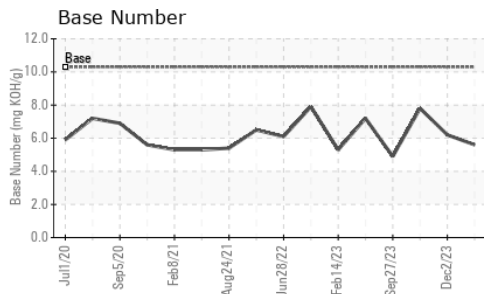
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>15</b>	10	8
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	7	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>	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.6</b>	10.0	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	22.4	20.5
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>17</b>	13	13
Boron	ppm	ASTM D5185m		<b>22</b>	19	40
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	4	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>753</b>	730	747
Calcium	ppm	ASTM D5185m	2900	<b>1452</b>	1305	1387
Phosphorus	ppm	ASTM D5185m	1100	<b>699</b>	747	764
Zinc	ppm	ASTM D5185m	1200	<b>861</b>	846	881
Sulfur	ppm	ASTM D5185m	4000	<b>3128</b>	3165	3157
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	17.2	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>5.6</b>	6.2	7.8
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.6</b>	11.6	11.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0906922  
**Lab Number** : 06125376  
**Unique Number** : 10939527  
**Test Package** : FLEET

**Received** : 21 Mar 2024  
**Tested** : 24 Mar 2024  
**Diagnosed** : 24 Mar 2024 - Wes Davis

**LTI/MILKY WAY - SUNNYSIDE**  
 333 MIDVALE RD  
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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)