



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 3063**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0833216</b>	WC0833149	WC0833171
Sample Date		Client Info		<b>04 Feb 2024</b>	02 Nov 2023	22 Jul 2023
Machine Age	mls	Client Info		<b>617378</b>	579308	539883
Oil Age	mls	Client Info		<b>38070</b>	40000	40000
Filter Age	mls	Client Info		<b>38070</b>	40000	40000
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>20</b>	9	17
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	4	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>10</b>	2	7
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<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

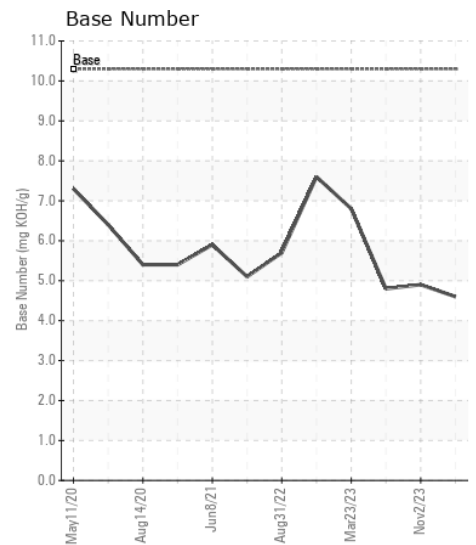
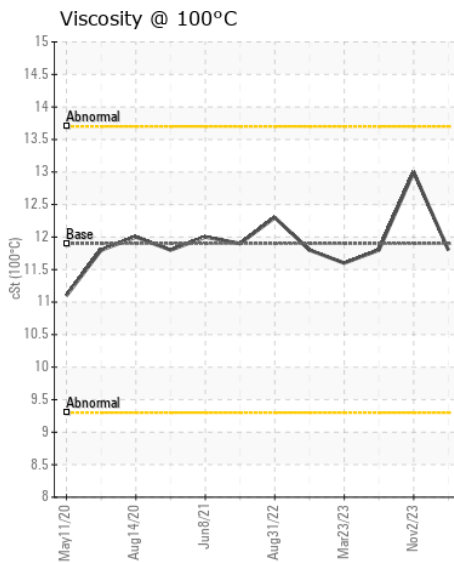
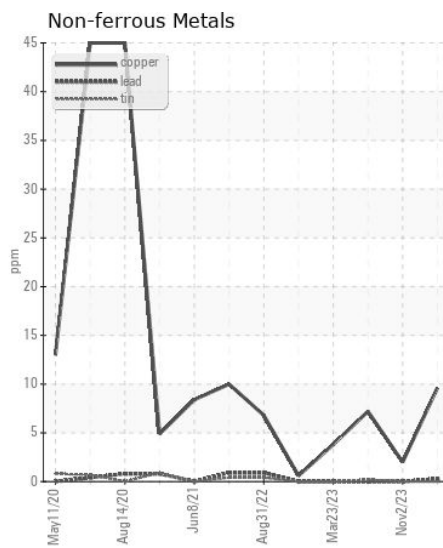
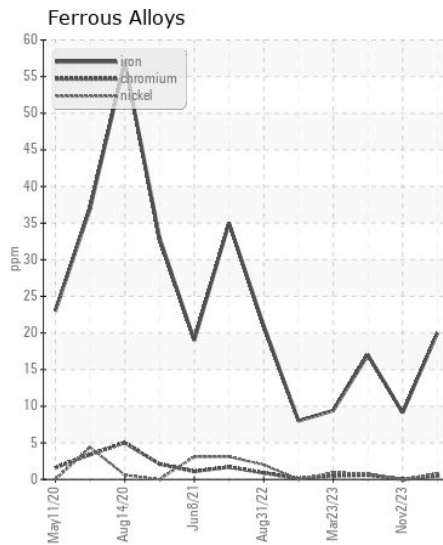
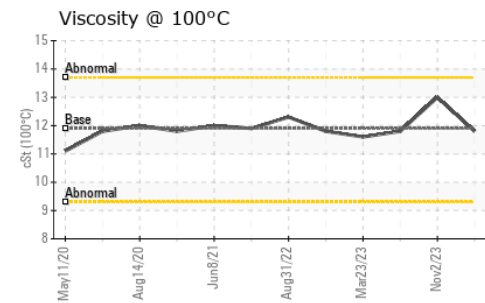
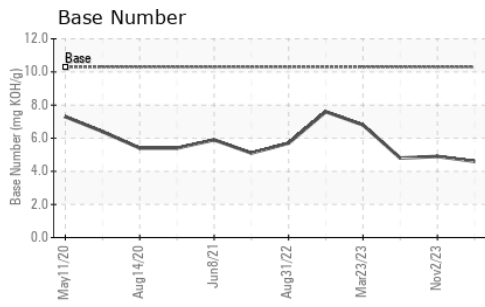
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	6	9
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	17	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>0.6</b>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	10.3	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	24.5	24.0
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>	2	4
Boron	ppm	ASTM D5185m		<b>15</b>	13	14
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	28	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>801</b>	722	798
Calcium	ppm	ASTM D5185m	2900	<b>1445</b>	1306	1447
Phosphorus	ppm	ASTM D5185m	1100	<b>693</b>	671	728
Zinc	ppm	ASTM D5185m	1200	<b>849</b>	840	861
Sulfur	ppm	ASTM D5185m	4000	<b>3027</b>	2722	3402
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.4</b>	20.4	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>4.6</b>	4.9	4.8
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.8</b>	13.0	11.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0833216  
**Lab Number** : 06098947  
**Unique Number** : 10897177  
**Test Package** : FLEET

**Received** : 23 Feb 2024  
**Tested** : 26 Feb 2024  
**Diagnosed** : 26 Feb 2024 - Wes Davis

**LTI/MILKY WAY - MOSES**  
 120 WISER LANE  
 MOSES LAKE, WA  
 US 98837

Contact: MIGUEL PEREZ  
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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)

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