



# WEAR CHECK

## OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 95**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (10 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0011680</b>	KL0011740	KL0007254
Sample Date		Client Info		<b>06 Feb 2024</b>	17 Oct 2023	11 Jul 2023
Machine Age	mls	Client Info		<b>307069</b>	298508	291232
Oil Age	mls	Client Info		<b>22047</b>	13486	6210
Filter Age	mls	Client Info		<b>22047</b>	13486	6210
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>102</b>	64	69
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	5	6
Lead	ppm	ASTM D5185m	>40	<b>43</b>	22	24
Copper	ppm	ASTM D5185m	>330	<b>74</b>	122	264
Tin	ppm	ASTM D5185m	>15	<b>6</b>	7	8
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

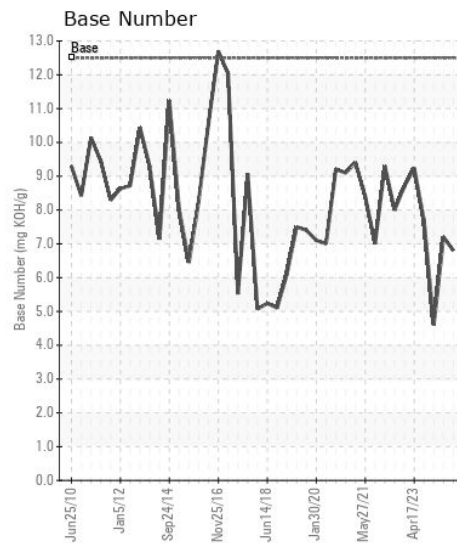
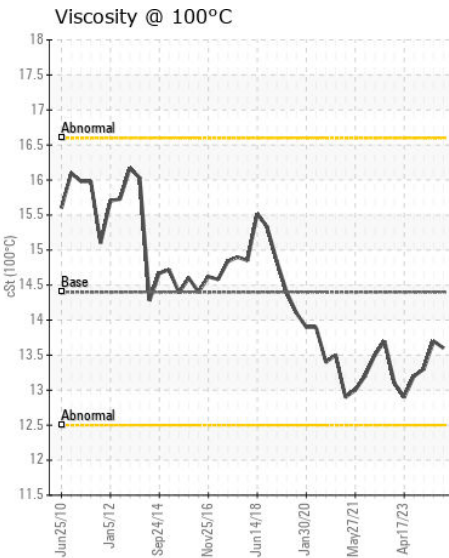
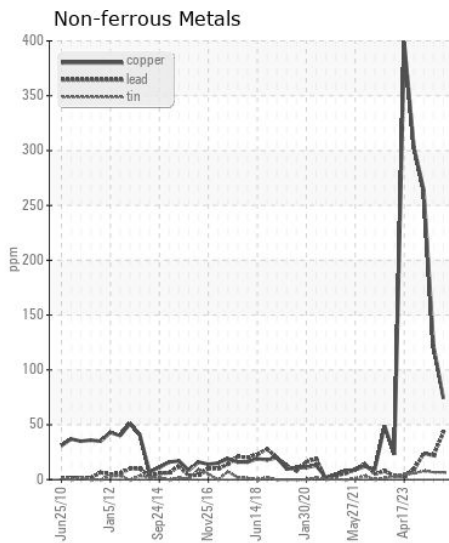
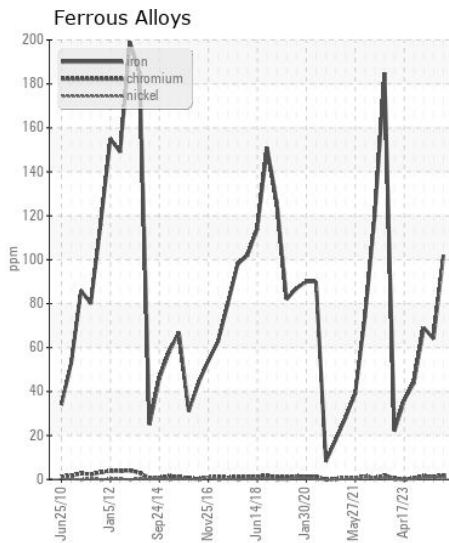
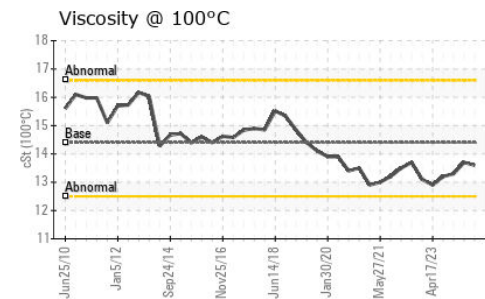
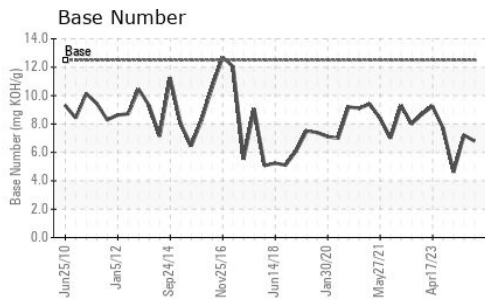
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>19</b>	23	▲ 35
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	5
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	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	10.4	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.7</b>	24.6	24.3
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>3</b>	5	5
Boron	ppm	ASTM D5185m	151	<b>138</b>	102	157
Barium	ppm	ASTM D5185m	0.4	<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185m	250	<b>112</b>	92	127
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	0	<b>649</b>	672	733
Calcium	ppm	ASTM D5185m	2046	<b>1563</b>	1501	1733
Phosphorus	ppm	ASTM D5185m	1043	<b>724</b>	754	806
Zinc	ppm	ASTM D5185m	943	<b>956</b>	906	928
Sulfur	ppm	ASTM D5185m	5012	<b>2538</b>	2480	2948
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.6</b>	20.6	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>6.8</b>	7.2	4.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.6</b>	13.7	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0011680  
**Lab Number** : 06089260  
**Unique Number** : 10876705  
**Test Package** : FLEET

**Received** : 14 Feb 2024  
**Tested** : 15 Feb 2024  
**Diagnosed** : 16 Feb 2024 - Jonathan Hester

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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)