



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 3820**  
 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>WC0882071</b>	WC0831740	---
Sample Date		Client Info		<b>03 Oct 2023</b>	02 Oct 2023	---
Machine Age	mls	Client Info		<b>357078</b>	346321	---
Oil Age	mls	Client Info		<b>10757</b>	37903	---
Filter Age	mls	Client Info		<b>10757</b>	37903	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	32	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	6	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>330	<b>7</b>	11	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

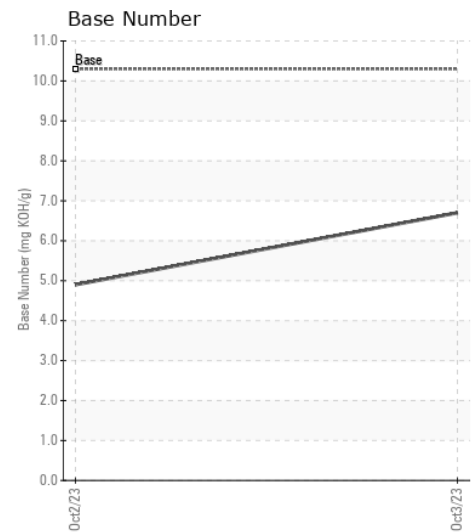
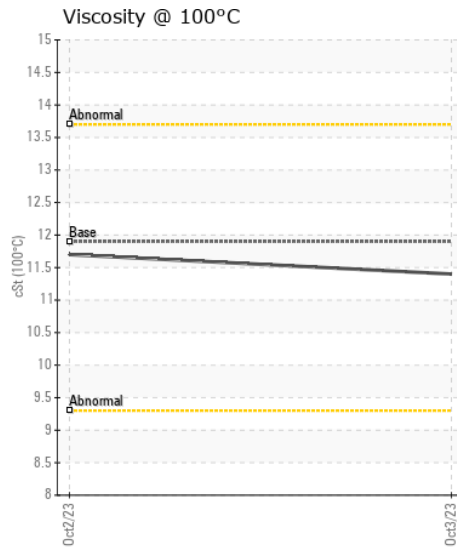
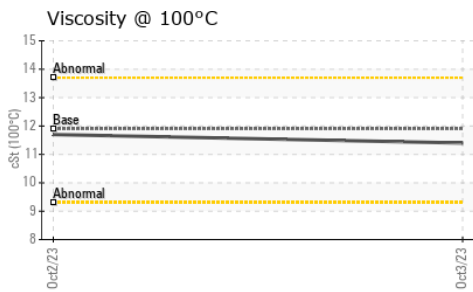
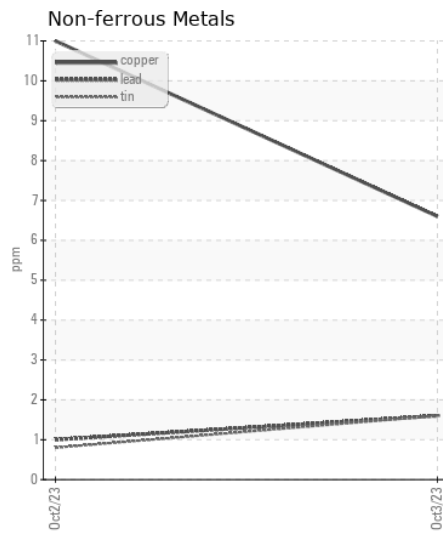
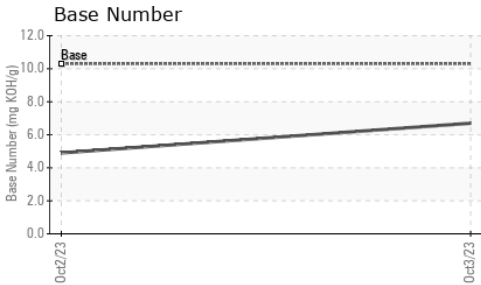
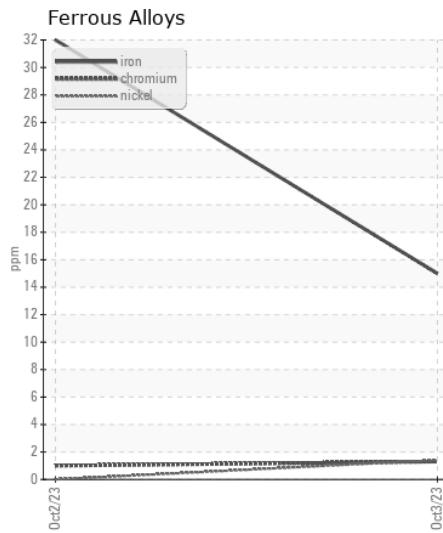
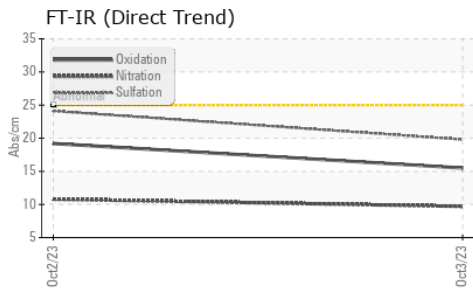
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>17</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	8	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	24.1	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>	3	---
Boron	ppm	ASTM D5185m		<b>86</b>	15	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>4</b>	6	---
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>1126</b>	714	---
Calcium	ppm	ASTM D5185m	2900	<b>2085</b>	1428	---
Phosphorus	ppm	ASTM D5185m	1100	<b>1227</b>	744	---
Zinc	ppm	ASTM D5185m	1200	<b>1286</b>	858	---
Sulfur	ppm	ASTM D5185m	4000	<b>5581</b>	3066	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	19.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>6.7</b>	4.9	---
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.4</b>	11.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0882071 **Received** : 17 Apr 2024  
**Lab Number** : 06152527 **Tested** : 18 Apr 2024  
**Unique Number** : 10982605 **Diagnosed** : 22 Apr 2024 - Don Baldrige  
**Test Package** : FLEET

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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)