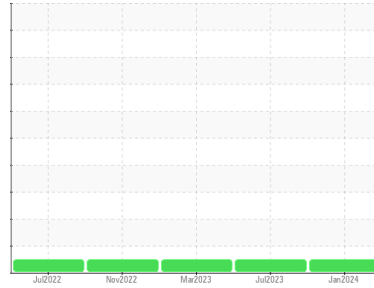




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**KENWORTH 3186**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0877313</b>	WC0462874	WC0625627
Sample Date	Client Info		<b>24 Jan 2024</b>	17 Jul 2023	07 Mar 2023
Machine Age	mls	Client Info	<b>0</b>	96552	65000
Oil Age	mls	Client Info	<b>0</b>	40000	0
Oil Changed	Client Info		<b>N/A</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.4
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>37</b>	32	9
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	4
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>9</b>	11	4
Lead	ppm	ASTM D5185m >40	<b>1</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>5</b>	5	6
Tin	ppm	ASTM D5185m >15	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>12</b>	15	78
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>5</b>	4	4
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	<b>715</b>	861	733
Calcium	ppm	ASTM D5185m 2900	<b>1318</b>	1543	1297
Phosphorus	ppm	ASTM D5185m 1100	<b>719</b>	808	692
Zinc	ppm	ASTM D5185m 1200	<b>799</b>	957	845
Sulfur	ppm	ASTM D5185m 4000	<b>2666</b>	3752	3529

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	5
Sodium	ppm	ASTM D5185m	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m >20	<b>8</b>	12	9

## INFRA-RED

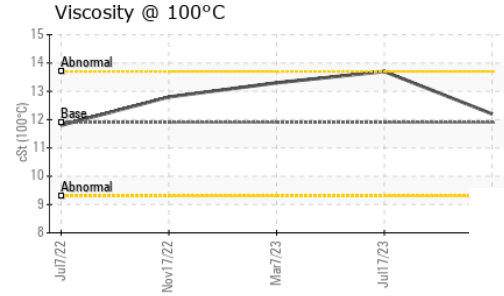
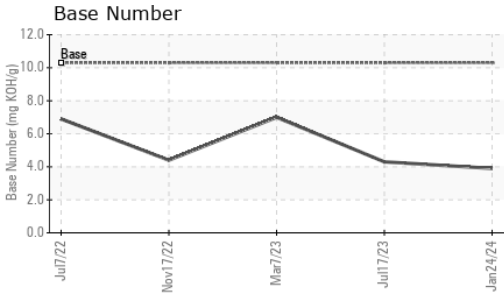
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.2</b>	1	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.1</b>	11.8	8.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>28.7</b>	28.2	18.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.6</b>	23.3	13.7
Base Number (BN)	mg KOH/g	ASTM D2896 10.3	<b>3.9</b>	4.3	7



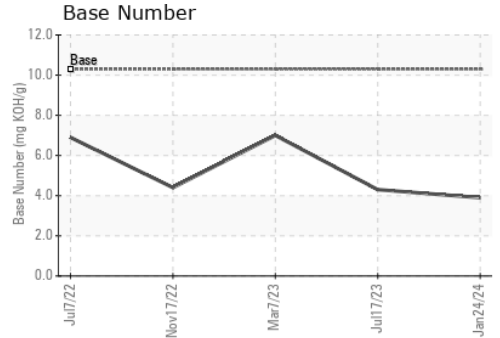
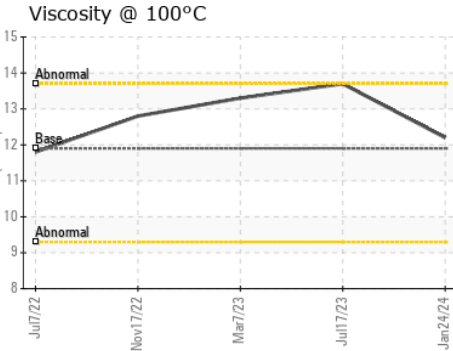
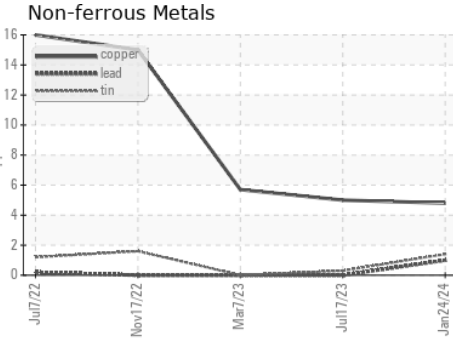
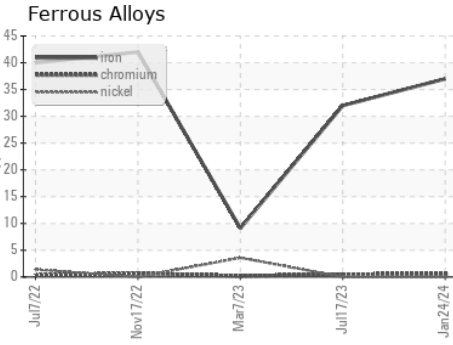
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.2</b>	13.7	13.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0877313 **Received** : 01 Feb 2024  
**Lab Number** : 06077460 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859551 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**LTI/MILKY WAY - MOUNT VERNON**  
 3814 OLD HWY 99 S RD  
 MOUNT VERNON, WA  
 US 98273  
 Contact: JOHN VAN WINGERDEN  
 jvw@lynden.com  
 T: (360)354-2101  
 F: (360)354-3571

Certificate L2367  
 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)