



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH T800 ST01 (S/N 870036)**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL 10W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0004164</b>	HPL0001708	---
Sample Date		Client Info		<b>29 Jan 2024</b>	12 Sep 2022	---
Machine Age	hrs	Client Info		<b>4804</b>	4235	---
Oil Age	hrs	Client Info		<b>0</b>	640	---
Filter Age	hrs	Client Info		<b>0</b>	640	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	SEVERE	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>38</b>	28	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>3</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	---
Copper	ppm	ASTM D5185m	>330	<b>12</b>	270	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

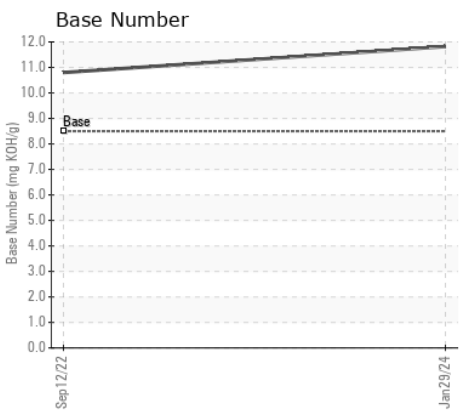
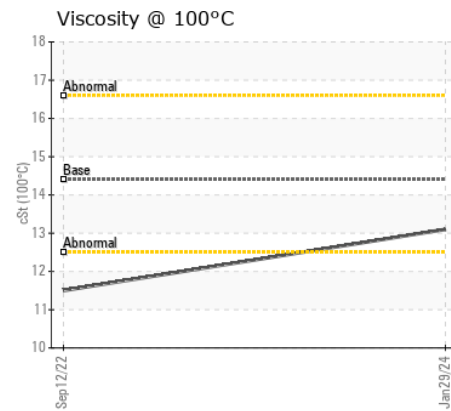
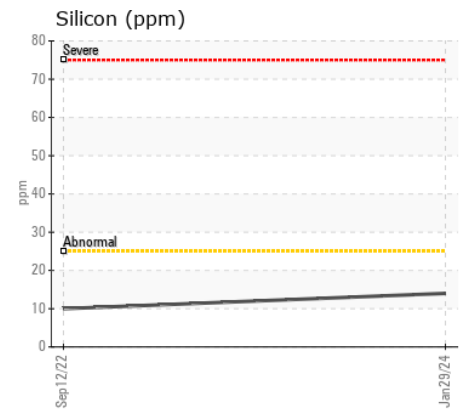
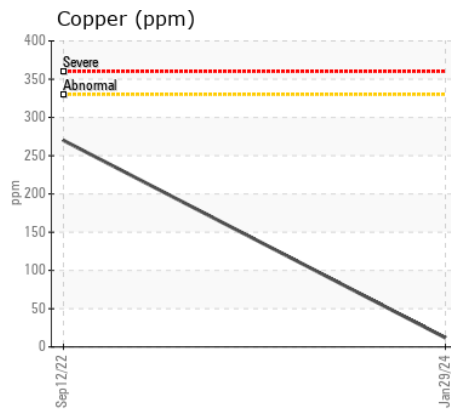
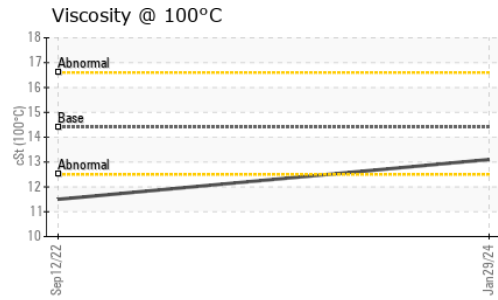
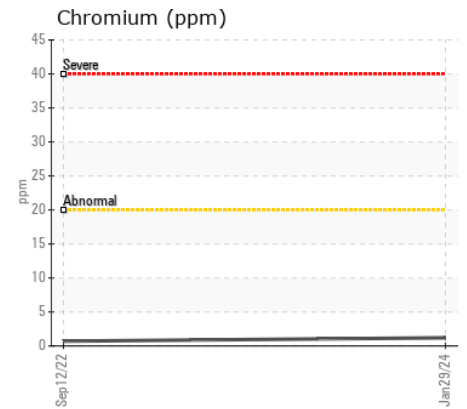
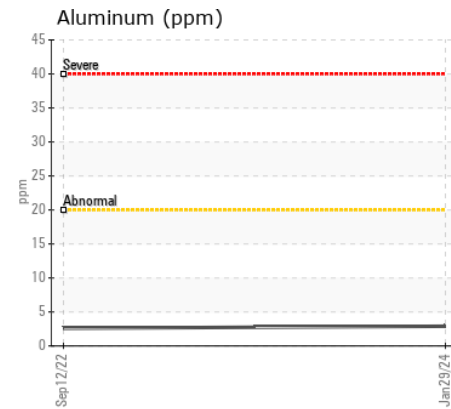
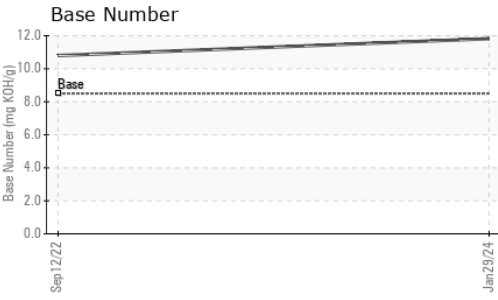
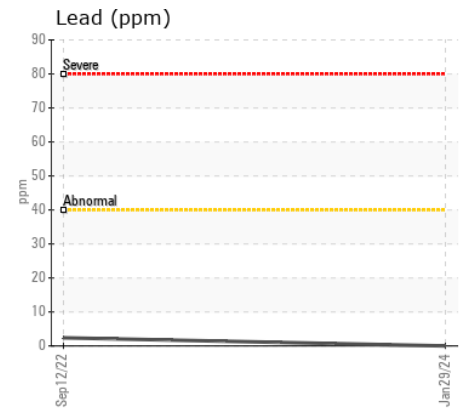
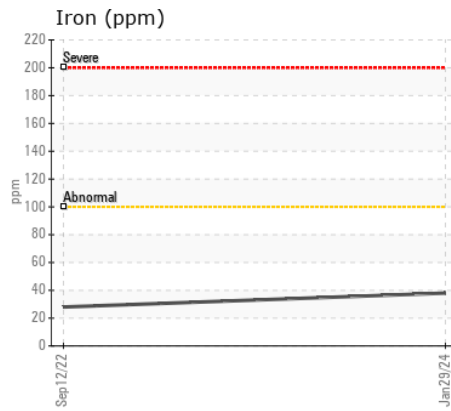
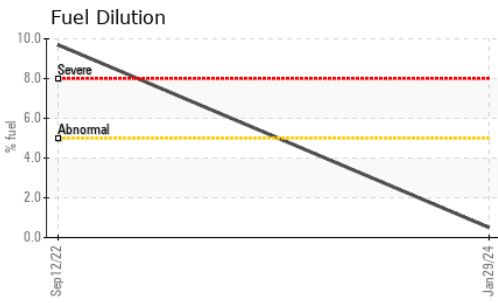
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>14</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	---
Fuel	%	ASTM D3524	>5	<b>0.5</b>	9.7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.2</b>	14.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	41.6	---
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>9</b>	4	---
Boron	ppm	ASTM D5185m	250	<b>51</b>	41	---
Barium	ppm	ASTM D5185m	10	<b>10</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>79</b>	538	---
Manganese	ppm	ASTM D5185m		<b>3</b>	<1	---
Magnesium	ppm	ASTM D5185m	450	<b>981</b>	840	---
Calcium	ppm	ASTM D5185m	3000	<b>944</b>	2784	---
Phosphorus	ppm	ASTM D5185m	1150	<b>989</b>	918	---
Zinc	ppm	ASTM D5185m	1350	<b>1148</b>	1146	---
Sulfur	ppm	ASTM D5185m	4250	<b>4048</b>	10572	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.3</b>	41.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>11.82</b>	10.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.1</b>	11.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004164 **Received** : 31 Jan 2024  
**Lab Number** : 06076026 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858117 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

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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