



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**HER SON [CONHER]**  
Machine Id  
**2011 KENWORTH T. Orba FZO-0919 Kenworth**  
Component  
**Diesel Engine**  
Fluid  
**VALVOLINE PREMIUM BLUE (38 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample  
Comment: Fluid: premium blue 7800 15W40 CI-4 Plus )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0014568</b>	---	---
Sample Date		Client Info		<b>26 Apr 2024</b>	---	---
Machine Age	kms	Client Info		<b>1514875</b>	---	---
Oil Age	kms	Client Info		<b>13488</b>	---	---
Filter Age	kms	Client Info		<b>13488</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

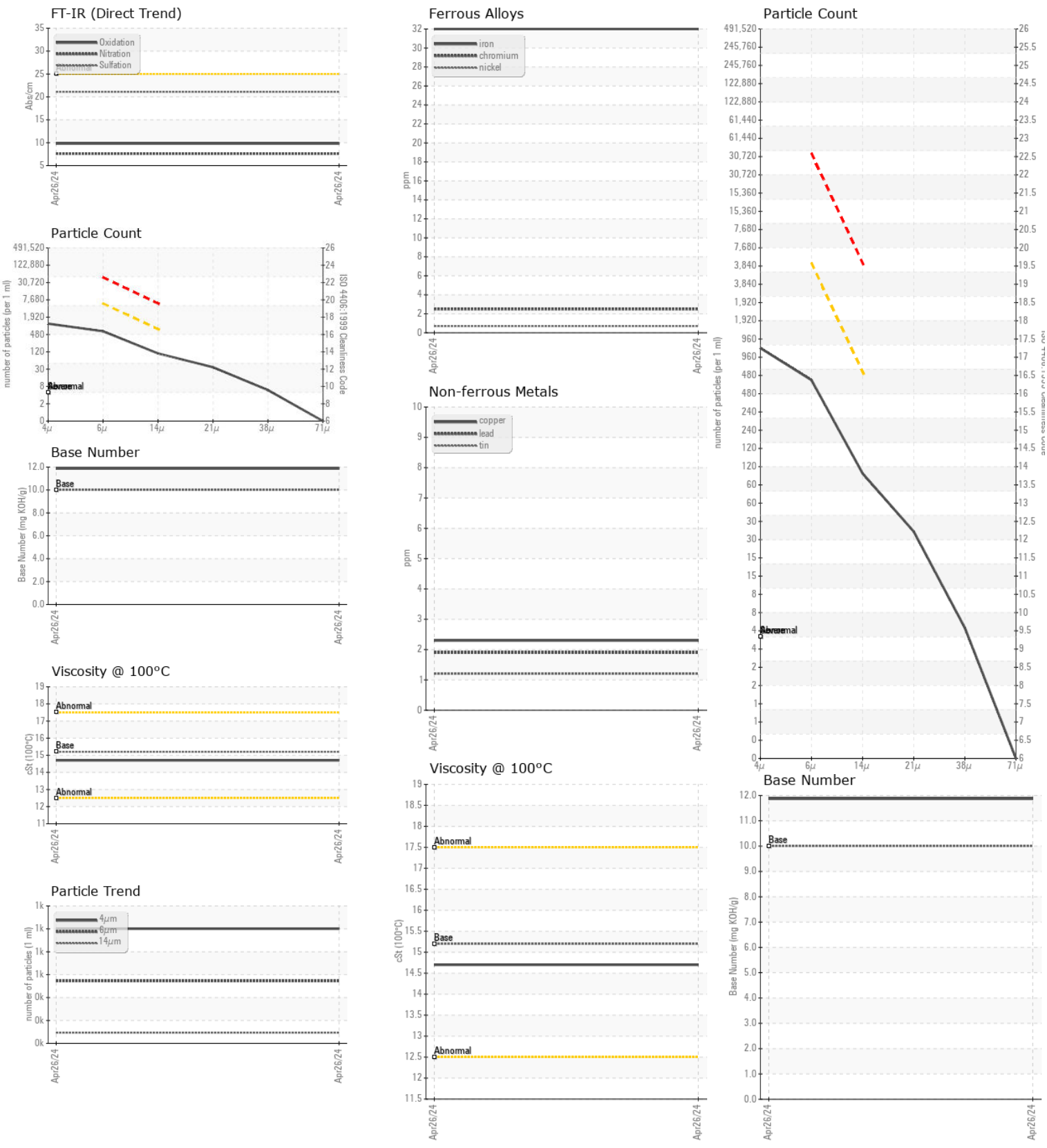
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>2.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.1</b>	---	---
Particles >4µm		ASTM D7647		<b>1001</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>545</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>93</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>31</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>5</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>16/14</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

## 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>0</b>	---	---
Boron	ppm	ASTM D5185m	2.9	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m	0.1	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>4</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m	18	<b>17</b>	---	---
Calcium	ppm	ASTM D5185m	2936	<b>3823</b>	---	---
Phosphorus	ppm	ASTM D5185m	998	<b>1040</b>	---	---
Zinc	ppm	ASTM D5185m	1095	<b>1190</b>	---	---
Sulfur	ppm	ASTM D5185m	5469	<b>4622</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.8</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	<b>11.87</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.2	<b>14.7</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014568 **Received** : 09 May 2024  
**Lab Number** : 06174063 **Tested** : 10 May 2024  
**Unique Number** : 11020116 **Diagnosed** : 12 May 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

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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