



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH 109**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0844146</b>	WCM2318414	---
Sample Date		Client Info		<b>16 May 2024</b>	05 Nov 2020	---
Machine Age	hrs	Client Info		<b>10380</b>	4695	---
Oil Age	hrs	Client Info		<b>750</b>	2404	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>427</b>	194	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>12</b>	11	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

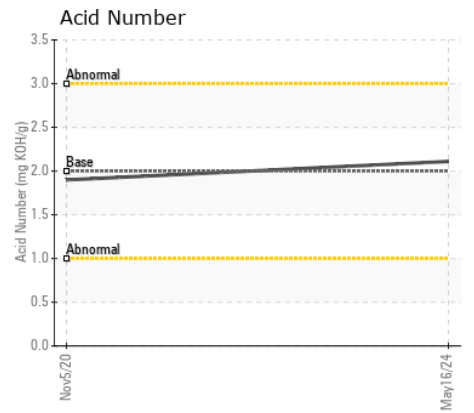
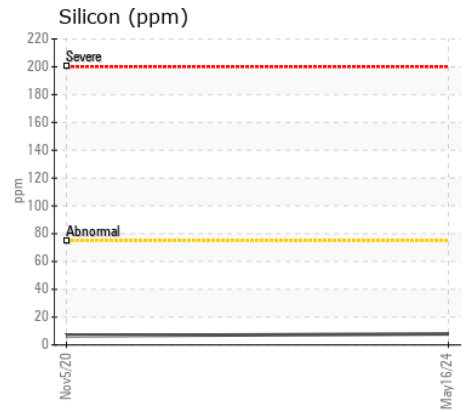
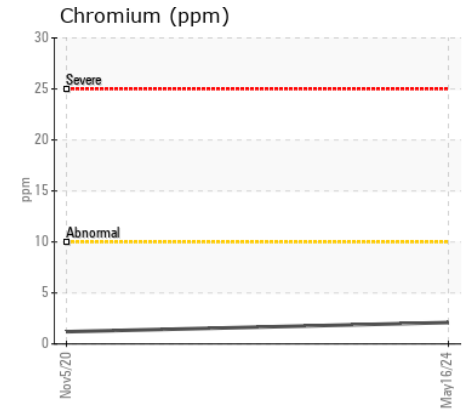
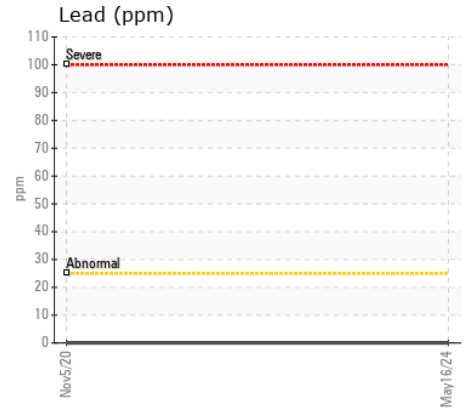
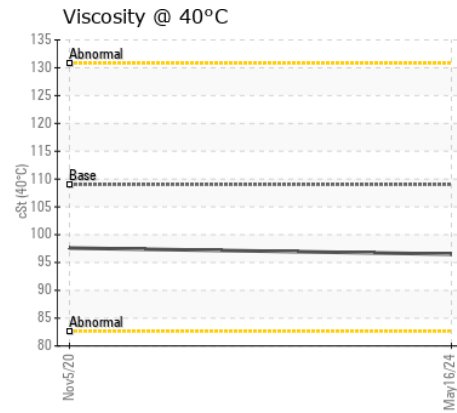
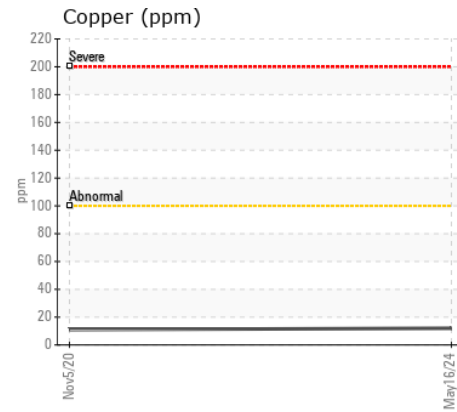
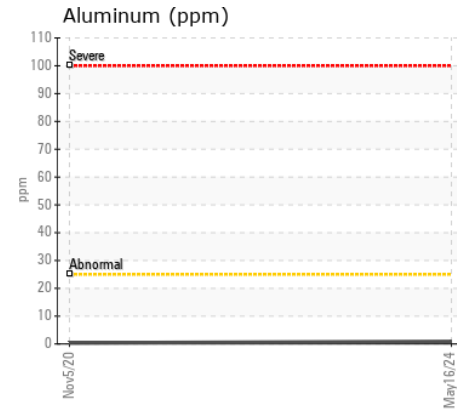
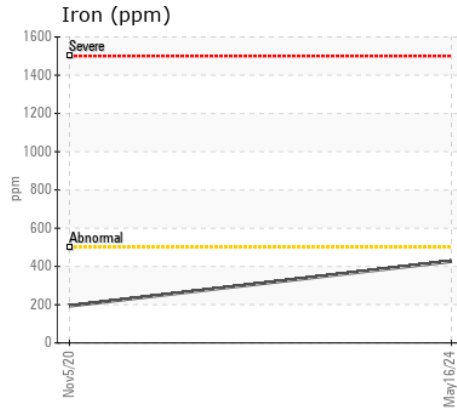
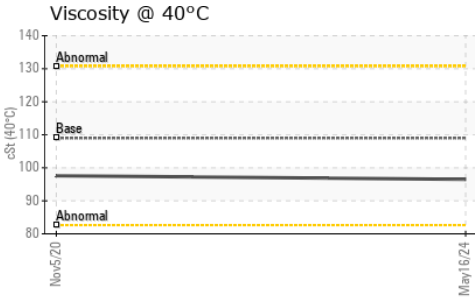
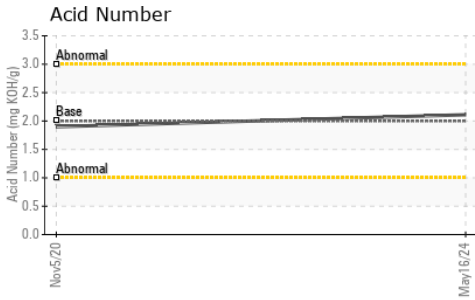
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>8</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
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	>.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	---
Boron	ppm	ASTM D5185m	400	<b>184</b>	183	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	12	<b>16</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>7</b>	6	---
Magnesium	ppm	ASTM D5185m	12	<b>6</b>	3	---
Calcium	ppm	ASTM D5185m	150	<b>66</b>	16	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1468</b>	1166	---
Zinc	ppm	ASTM D5185m	125	<b>74</b>	18	---
Sulfur	ppm	ASTM D5185m	22500	<b>28019</b>	18866	---
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	<b>2.11</b>	1.899	---
Visc @ 40°C	cSt	ASTM D445	109	<b>96.5</b>	97.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0844146  
**Lab Number** : 06211916  
**Unique Number** : 11084780  
**Test Package** : MOB 2  
**Received** : 17 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 18 Jun 2024 - Wes Davis

**LYNDEN TRANSPORT - FIFE**  
 5410 12TH STREET EAST  
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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)