



# OIL ANALYSIS REPORT

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

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

## RECOMMENDATION

The fluid change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

Bearing and/or gear wear is indicated.

## CONTAMINATION

There is no indication of any contamination in the fluid.

## FLUID CONDITION

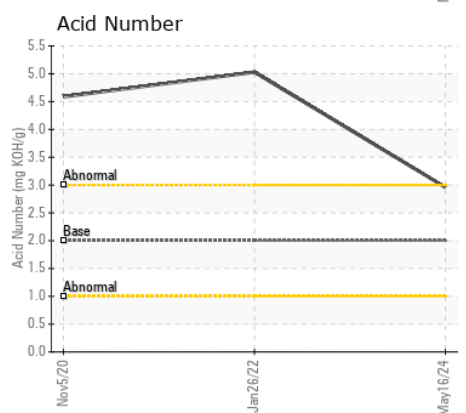
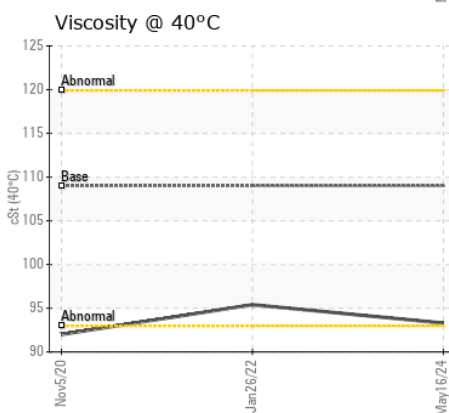
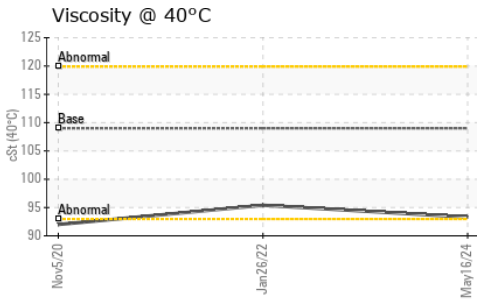
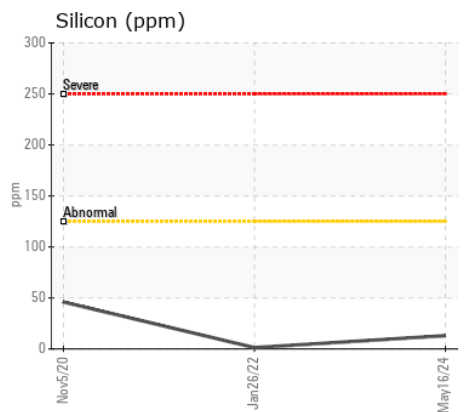
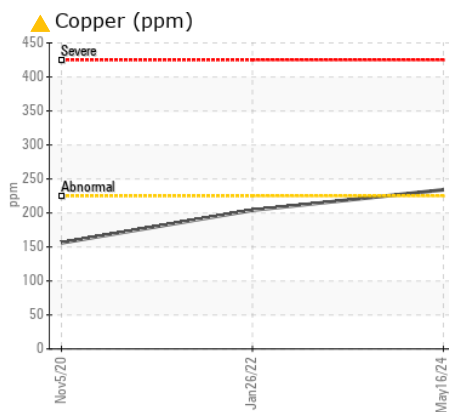
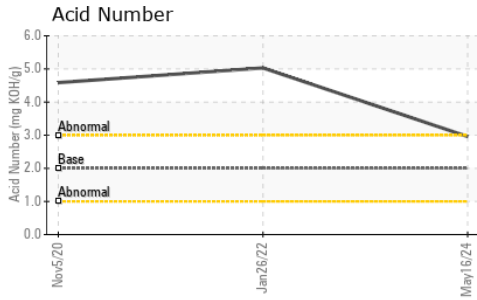
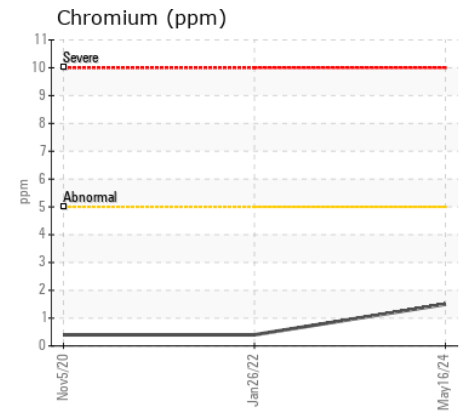
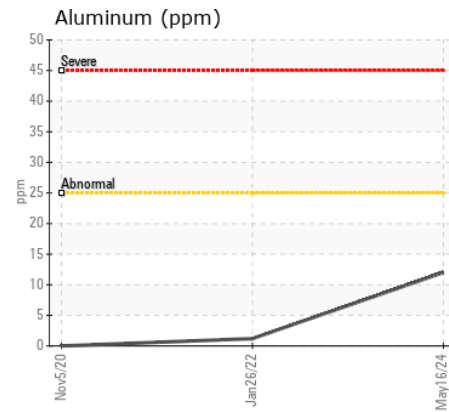
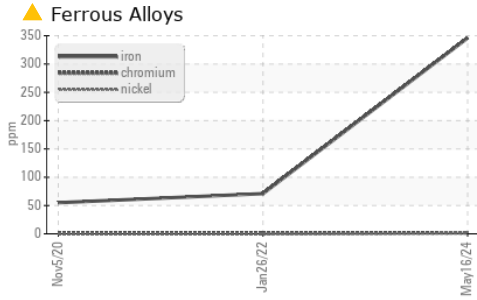
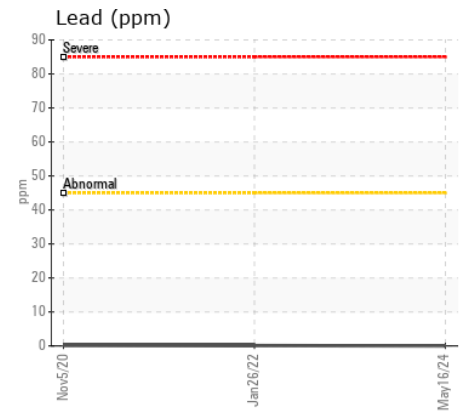
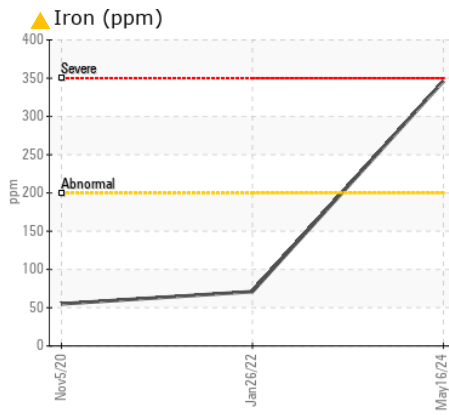
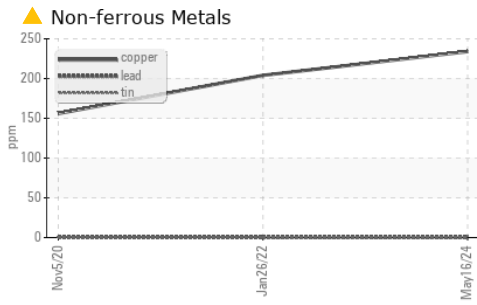
The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0844108</b>	WC0615109	WCM2318445
Sample Date		Client Info		<b>16 May 2024</b>	26 Jan 2022	05 Nov 2020
Machine Age	hrs	Client Info		<b>10380</b>	0	4695
Oil Age	hrs	Client Info		<b>750</b>	750	2402
Filter Age	hrs	Client Info		<b>750</b>	0	2402
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>200	<b>▲ 346</b>	71	55
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m	>25	<b>12</b>	1	0
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>225	<b>▲ 234</b>	204	156
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	<b>▲ MODER</b>	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>125	<b>13</b>	1	46
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>7</b>	2	0
Boron	ppm	ASTM D5185m	400	<b>203</b>	28	312
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>25</b>	3	5
Magnesium	ppm	ASTM D5185m	12	<b>7</b>	5	9
Calcium	ppm	ASTM D5185m	150	<b>37</b>	54	67
Phosphorus	ppm	ASTM D5185m	1650	<b>1077</b>	1242	1199
Zinc	ppm	ASTM D5185m	125	<b>48</b>	4	6
Sulfur	ppm	ASTM D5185m	22500	<b>2431</b>	715	715
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	<b>2.96</b>	<b>▲ 5.03</b>	<b>▲ 4.587</b>
Visc @ 40°C	cSt	ASTM D445	109	<b>93.3</b>	95.4	92.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0844108  
**Lab Number** : 06211919  
**Unique Number** : 11084783  
**Test Package** : MOB 2

**Received** : 17 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Don Baldrige

**LYNDEN TRANSPORT - FIFE**  
 5410 12TH STREET EAST  
 FIFE, WA  
 US 98424

Contact: CHESTER ANGLEMYER  
 chestera@ltia.lynden.com

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)

T: (253)926-7245  
 F: (253)926-7249