



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH FT-19**  
 Component  
**Diesel Engine**  
 Fluid  
**UNITED OIL DURALENE (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0035179</b>	DC0035167	DC0034349
Sample Date		Client Info		<b>28 May 2024</b>	13 Apr 2024	09 Mar 2024
Machine Age	mls	Client Info		<b>2044539</b>	2028529	2013644
Oil Age	mls	Client Info		<b>16030</b>	14880	16629
Filter Age	mls	Client Info		<b>16030</b>	14880	16629
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>17</b>	14	22
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	2	<1
Lead	ppm	ASTM D5185m	>40	<b>1</b>	2	1
Copper	ppm	ASTM D5185m	>330	<b>4</b>	5	6
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

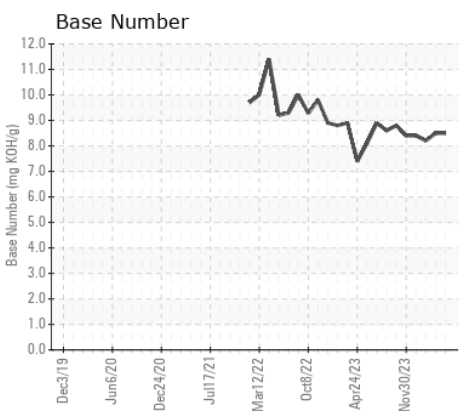
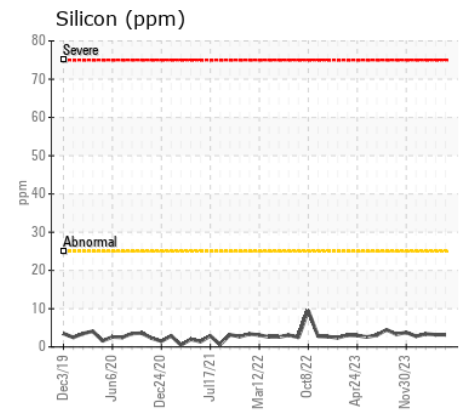
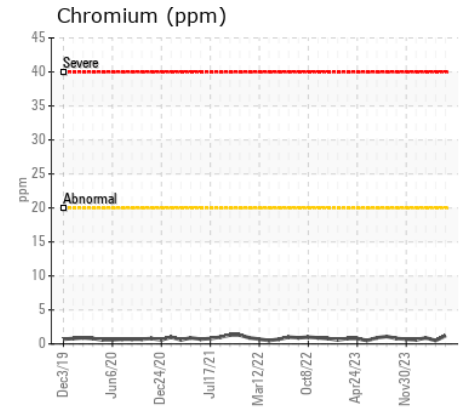
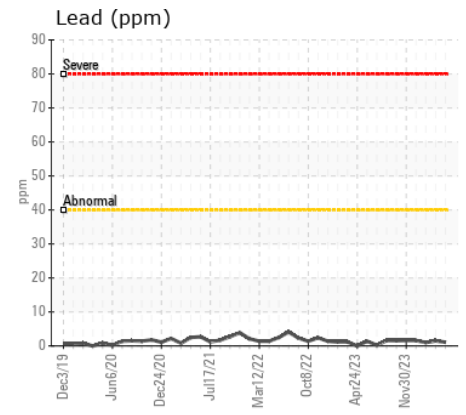
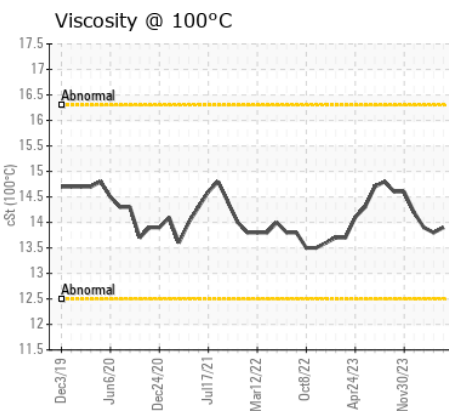
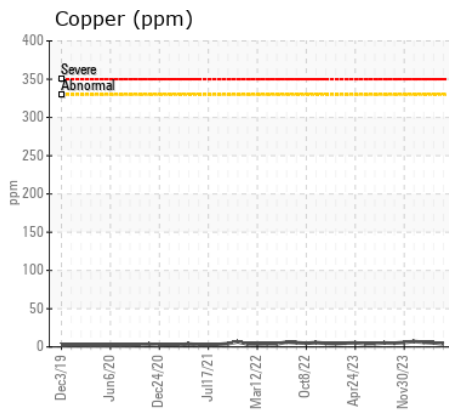
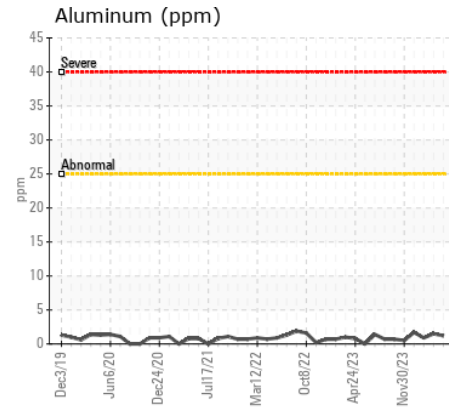
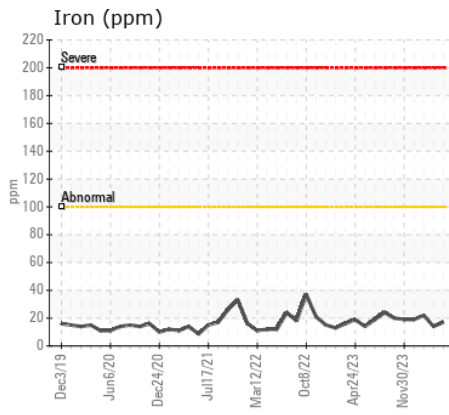
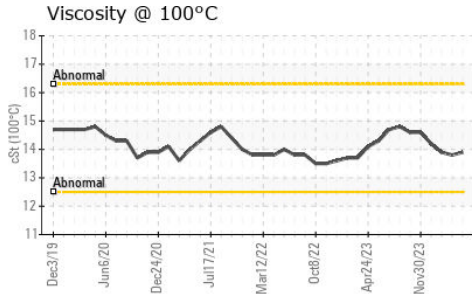
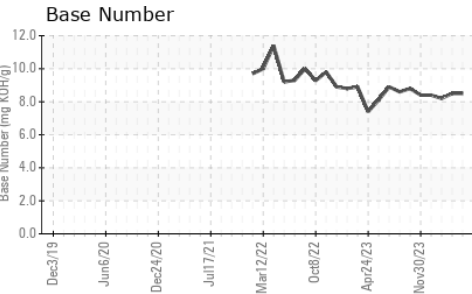
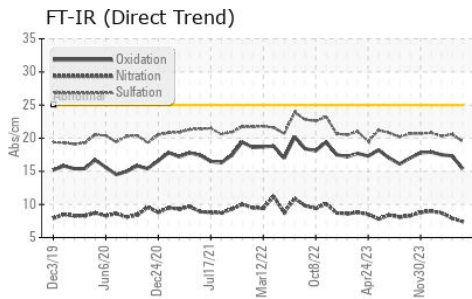
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	7.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	20.6	20.3
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	>0.2	<b>NEG</b>	NEG	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>1</b>	4	3
Boron	ppm	ASTM D5185m		<b>2</b>	5	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>54</b>	54	57
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>880</b>	902	971
Calcium	ppm	ASTM D5185m		<b>1135</b>	1182	1290
Phosphorus	ppm	ASTM D5185m		<b>1086</b>	1104	1112
Zinc	ppm	ASTM D5185m		<b>1256</b>	1278	1334
Sulfur	ppm	ASTM D5185m		<b>3437</b>	3784	3888
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	17.3	17.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.5</b>	8.5	8.2
Visc @ 100°C	cSt	ASTM D445		<b>13.9</b>	13.8	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035179  
**Lab Number** : 06197355  
**Unique Number** : 11059478  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 03 Jun 2024  
**Tested** : 04 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Wes Davis

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)

**FORRY TRANSPORT INC.**  
 1477 CARLISLE PIKE  
 HANOVER, PA  
 US 17331  
 Contact: WILLIE FORRY  
 willie@forrytrans.com  
 T: (717)632-7864  
 F: (717)632-7695