



# OIL ANALYSIS REPORT

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

Machine Id  
**KENWORTH T880 T-874 (S/N 1NKZXPEX4LJ391748)**  
 Component  
**Diesel Engine**  
 Fluid  
**DURALENE Dura-Max 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0934755</b>	WC0546624	WC0546626
Sample Date		Client Info		<b>24 May 2024</b>	27 Feb 2023	01 Feb 2023
Machine Age	mls	Client Info		<b>197403</b>	149061	148388
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>84</b>	36	32
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	8	6
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	3
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

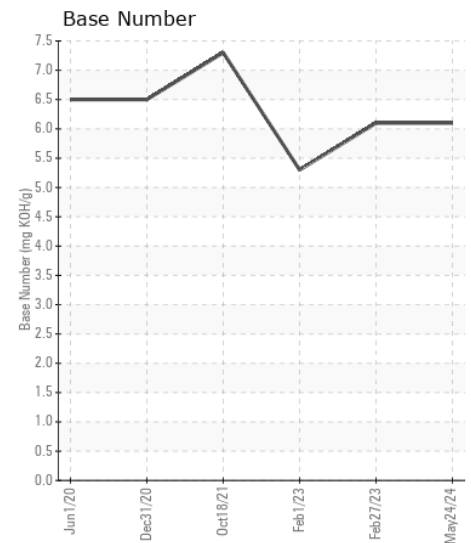
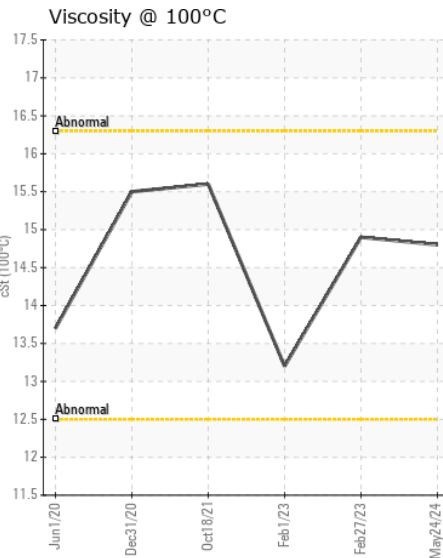
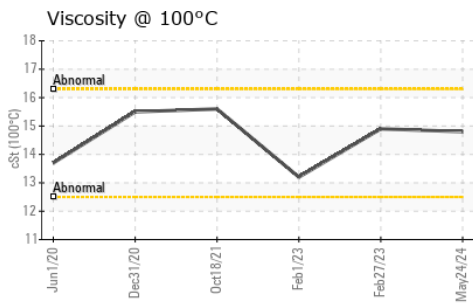
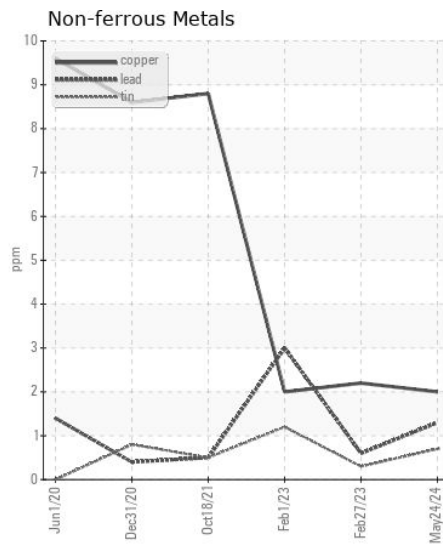
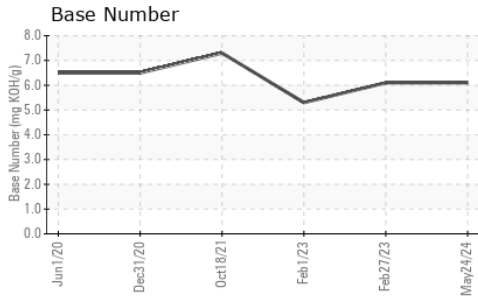
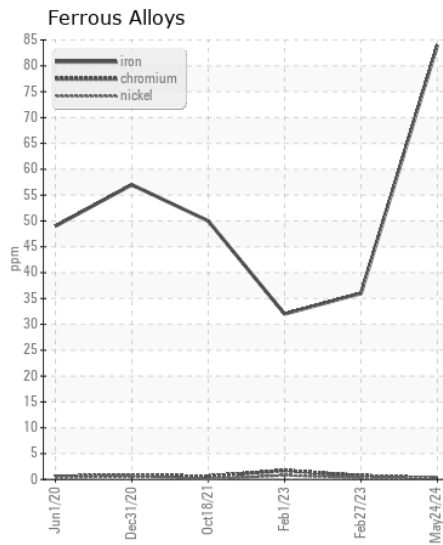
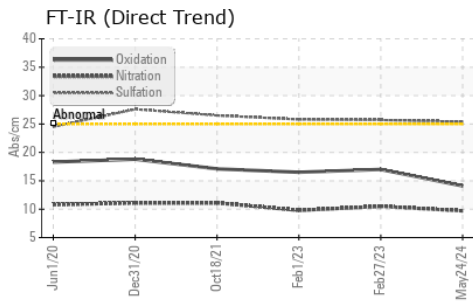
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	16	13
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>1.2</b>	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	10.5	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.4</b>	25.7	25.8
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>2</b>	3	<1
Boron	ppm	ASTM D5185m		<b>2</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	4
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>53</b>	41	54
Calcium	ppm	ASTM D5185m		<b>2698</b>	2601	2341
Phosphorus	ppm	ASTM D5185m		<b>1046</b>	940	849
Zinc	ppm	ASTM D5185m		<b>1251</b>	1153	1057
Sulfur	ppm	ASTM D5185m		<b>4367</b>	3406	3419
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	17.0	16.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.1</b>	6.1	5.3
Visc @ 100°C	cSt	ASTM D445		<b>14.8</b>	14.9	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0934755 **Received** : 21 Jun 2024  
**Lab Number** : 06217499 **Tested** : 25 Jun 2024  
**Unique Number** : 11090363 **Diagnosed** : 25 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**EAI EQUIPMENT A DIV OF PLEASANT CONSTRUCTION INC**  
 24024 FREDERICK ROAD  
 CLARKSBURG, MD  
 US 20871  
 Contact: Service Manager

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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F: