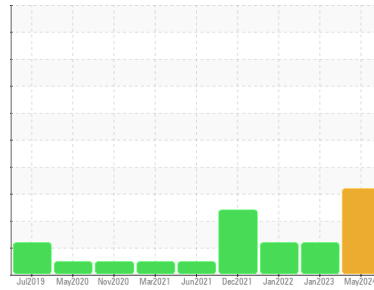




# OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id  
**KENWORTH T880 T-858 (S/N 1XKZD40X5KJ371026)**  
 Component  
**Diesel Engine**  
 Fluid  
**DURALENE Dura-Max 15W40 (44 QTS)**

## DIAGNOSIS

### Recommendation

Check for low coolant level. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### Fluid Condition

The BN level is low.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0934759</b>	WC0693416	WC0546600
Sample Date	Client Info		<b>23 May 2024</b>	25 Jan 2023	26 Jan 2022
Machine Age	mls	Client Info	<b>358027</b>	308361	226131
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	<b>▲ 132</b>	42	17
Chromium	ppm	ASTM D5185m	>20	<b>6</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	8	4
Lead	ppm	ASTM D5185m	>40	<b>14</b>	14	3
Copper	ppm	ASTM D5185m	>330	<b>6</b>	8	2
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>3</b>	<1	130
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>8</b>	17	138
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>61</b>	54	48
Calcium	ppm	ASTM D5185m		<b>2401</b>	2479	2426
Phosphorus	ppm	ASTM D5185m		<b>918</b>	860	1001
Zinc	ppm	ASTM D5185m		<b>1135</b>	1129	1126
Sulfur	ppm	ASTM D5185m		<b>4107</b>	4138	3525

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	8	16
Sodium	ppm	ASTM D5185m		<b>● 144</b>	● 289	▲ 1376
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	8	14
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG

## INFRA-RED

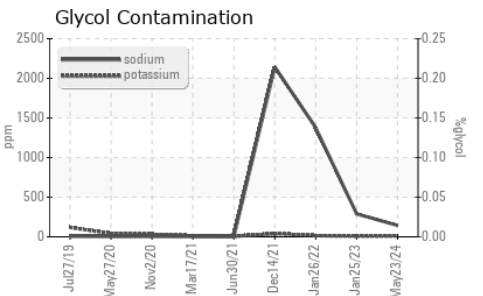
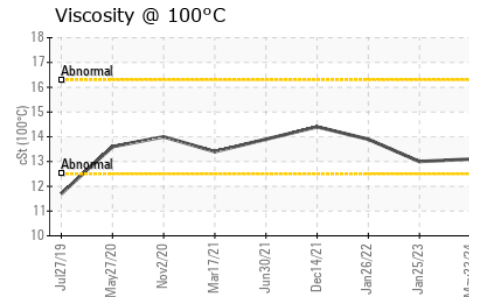
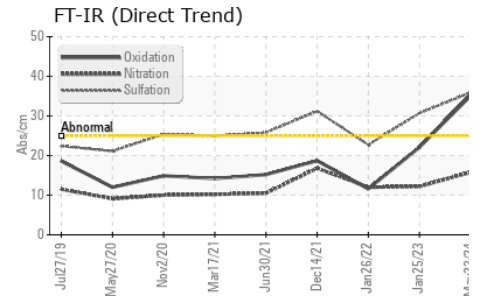
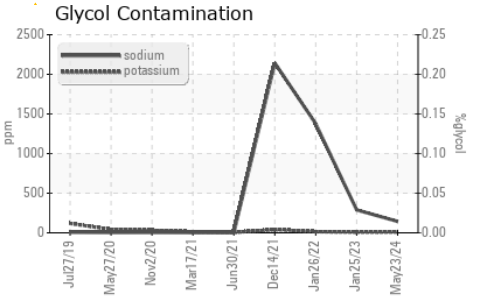
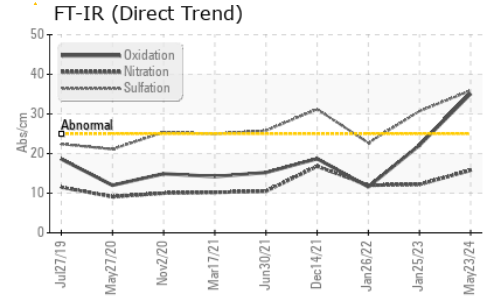
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	<b>1.1</b>	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>15.8</b>	12.2	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>35.9</b>	30.7	22.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>35.1</b>	22.1	11.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 2.8</b>	4.6	10.0



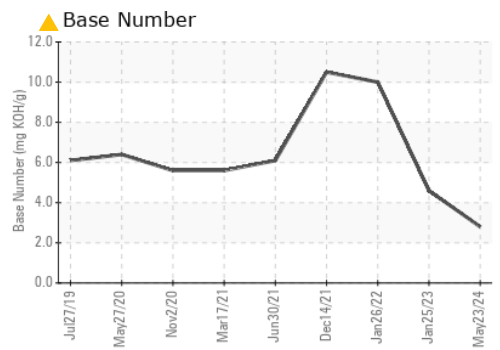
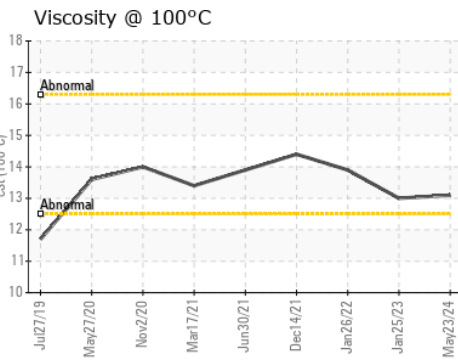
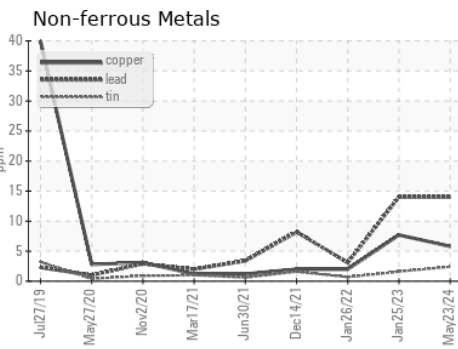
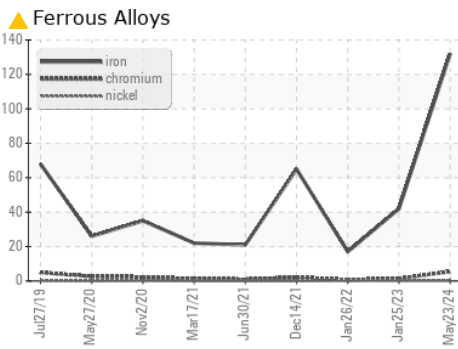
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.1	13.0	13.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0934759  
**Lab Number** : 06217486  
**Unique Number** : 11090350  
**Test Package** : CONST ( Additional Tests: Glycol, TBN )  
**Received** : 21 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Sean Felton

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)