



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

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

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0934759	WC0693416	WC0546600
Sample Date		Client Info		23 May 2024	25 Jan 2023	26 Jan 2022
Machine Age	mls	Client Info		358027	308361	226131
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	▲ 132	42	17
Chromium	ppm	ASTM D5185m	>20	6	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	15	8	4
Lead	ppm	ASTM D5185m	>40	14	14	3
Copper	ppm	ASTM D5185m	>330	6	8	2
Tin	ppm	ASTM D5185m	>15	2	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

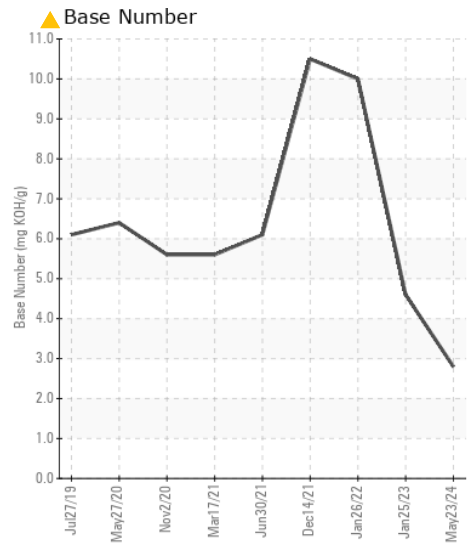
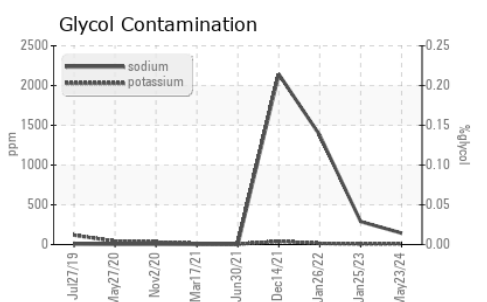
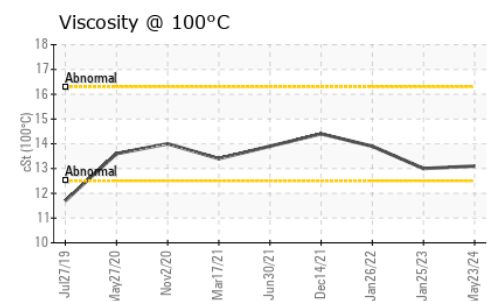
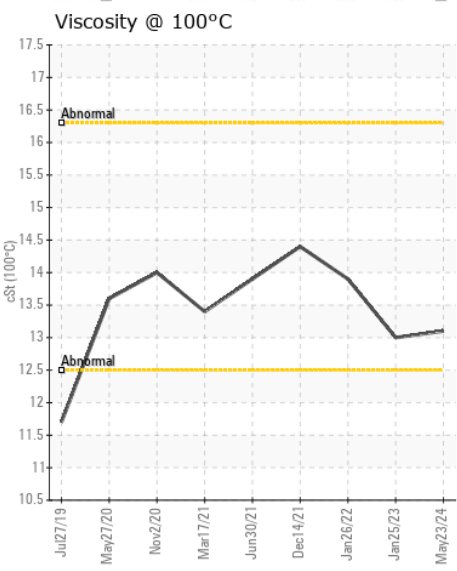
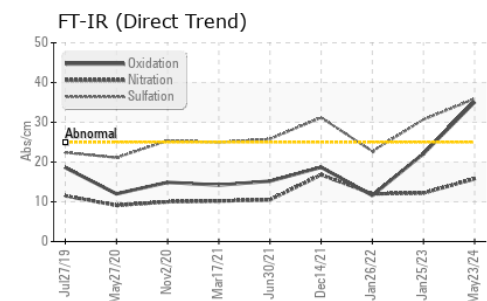
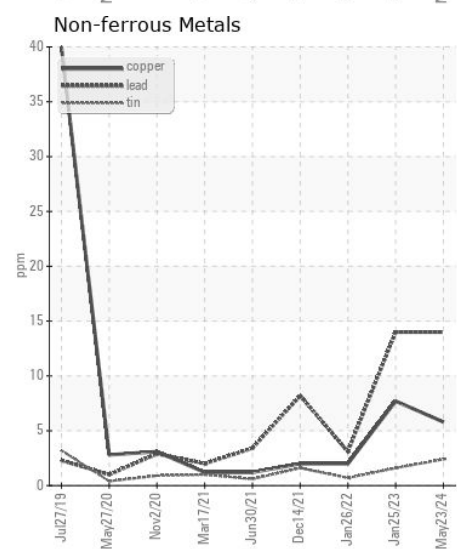
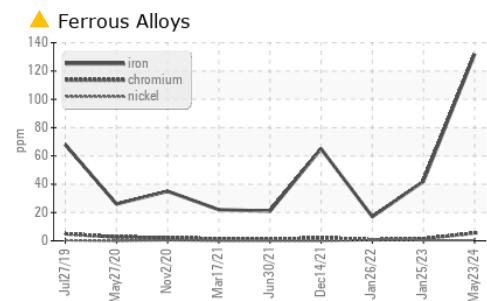
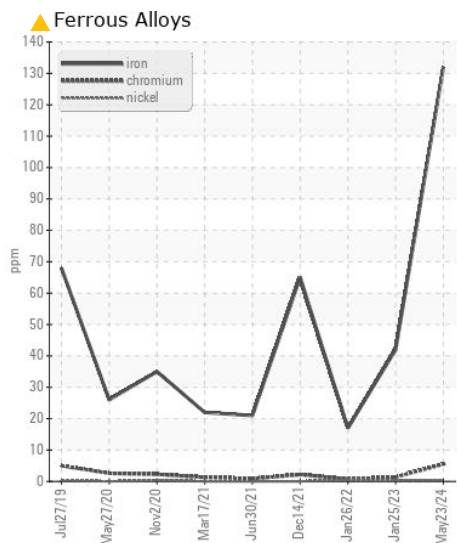
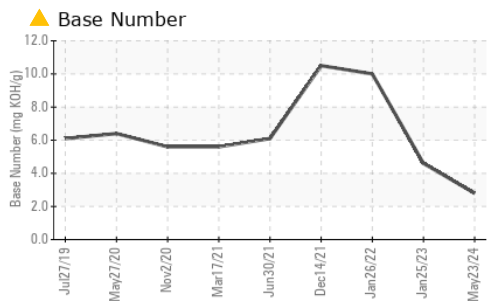
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	11	8	16
Potassium	ppm	ASTM D5185m	>20	9	8	14
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1.1	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	15.8	12.2	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.9	30.7	22.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN level is low.

Sodium	ppm	ASTM D5185m		● 144	● 289	▲ 1376
Boron	ppm	ASTM D5185m		3	<1	130
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		8	17	138
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		61	54	48
Calcium	ppm	ASTM D5185m		2401	2479	2426
Phosphorus	ppm	ASTM D5185m		918	860	1001
Zinc	ppm	ASTM D5185m		1135	1129	1126
Sulfur	ppm	ASTM D5185m		4107	4138	3525
Oxidation	Abs/.1mm	*ASTM D7414	>25	35.1	22.1	11.6
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.8	4.6	10.0
Visc @ 100°C	cSt	ASTM D445		13.1	13.0	13.9



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

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

Certificate L2367
 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)