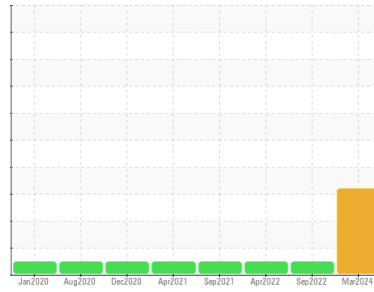




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KENWORTH T880 T-750 (S/N 1NKZXPEX8GJ123890)
 Component
Diesel Engine
 Fluid
DURALENE Dura-Max 15W40 (--- GAL)

DIAGNOSIS

- Recommendation**
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.
- Wear**
Cylinder, crank, or cam shaft wear is indicated.
- Contamination**
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0804126	WC0693439	WC0546649
Sample Date	Client Info	21 Mar 2024	08 Sep 2022	19 Apr 2022
Machine Age	mls	398667	354252	330045
Oil Age	mls	0	0	0
Oil Changed	Client Info	Changed	N/A	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	▲ 138	18	17
Chromium	ppm ASTM D5185m >20	7	<1	<1
Nickel	ppm ASTM D5185m >4	<1	0	0
Titanium	ppm ASTM D5185m	1	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	● 23	3	2
Lead	ppm ASTM D5185m >40	1	<1	<1
Copper	ppm ASTM D5185m >330	9	1	1
Tin	ppm ASTM D5185m >15	2	<1	<1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	9	<1	3
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	12	4	3
Manganese	ppm ASTM D5185m	2	<1	<1
Magnesium	ppm ASTM D5185m	103	56	47
Calcium	ppm ASTM D5185m	2305	2455	2509
Phosphorus	ppm ASTM D5185m	931	900	940
Zinc	ppm ASTM D5185m	1117	1075	1099
Sulfur	ppm ASTM D5185m	3732	4367	3343

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	▲ 31	6	4
Sodium	ppm ASTM D5185m	3	0	2
Potassium	ppm ASTM D5185m >20	23	0	2

INFRA-RED

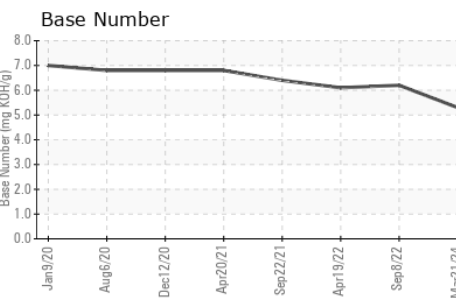
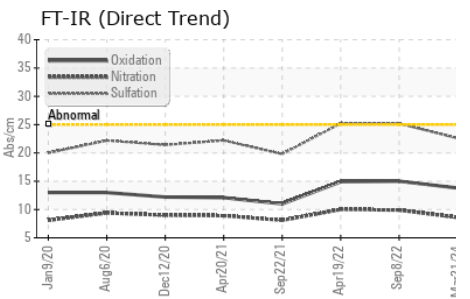
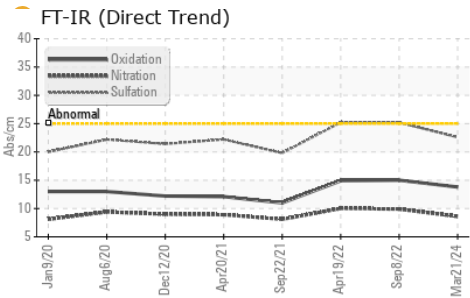
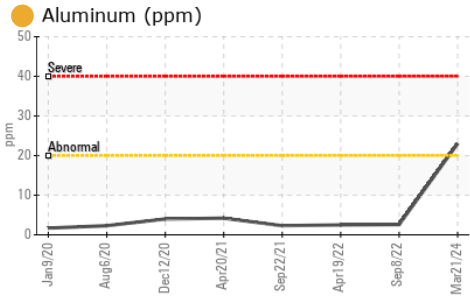
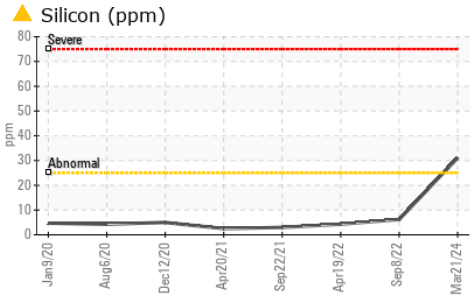
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.6	0.5	0.5
Nitration	Abs/cm *ASTM D7624 >20	8.6	9.9	10.0
Sulfation	Abs/.1mm *ASTM D7415 >30	22.6	25.2	25.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.8	15.0	14.9
Base Number (BN)	mg KOH/g ASTM D2896	5.3	6.2	6.1



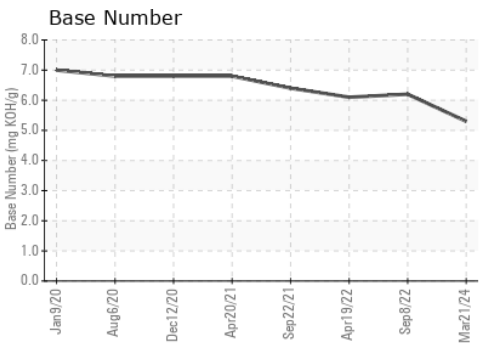
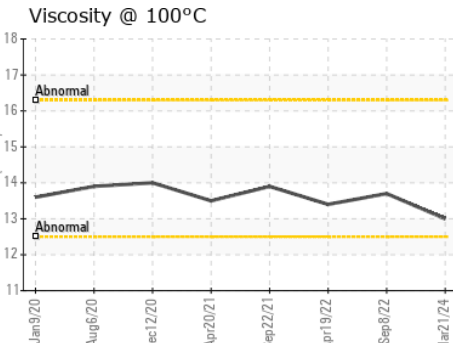
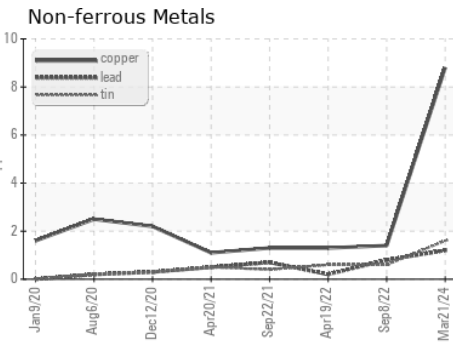
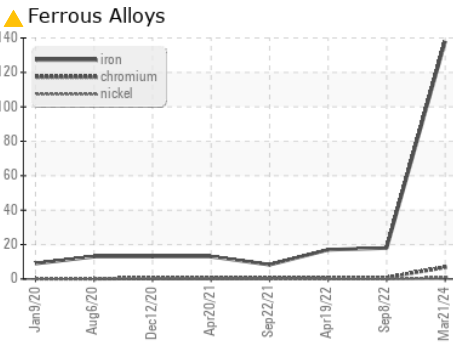
OIL ANALYSIS REPORT



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	13.0	13.7	13.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804126 **Received** : 05 Apr 2024
Lab Number : 06140599 **Tested** : 08 Apr 2024
Unique Number : 10965407 **Diagnosed** : 09 Apr 2024 - Don Baldrige
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)

T:
F: