

Machine Id **KENWORTH T880 T-896 (S/N 1NKZXPEX1PJ225385)** Component **Diesel Engine** Fluid

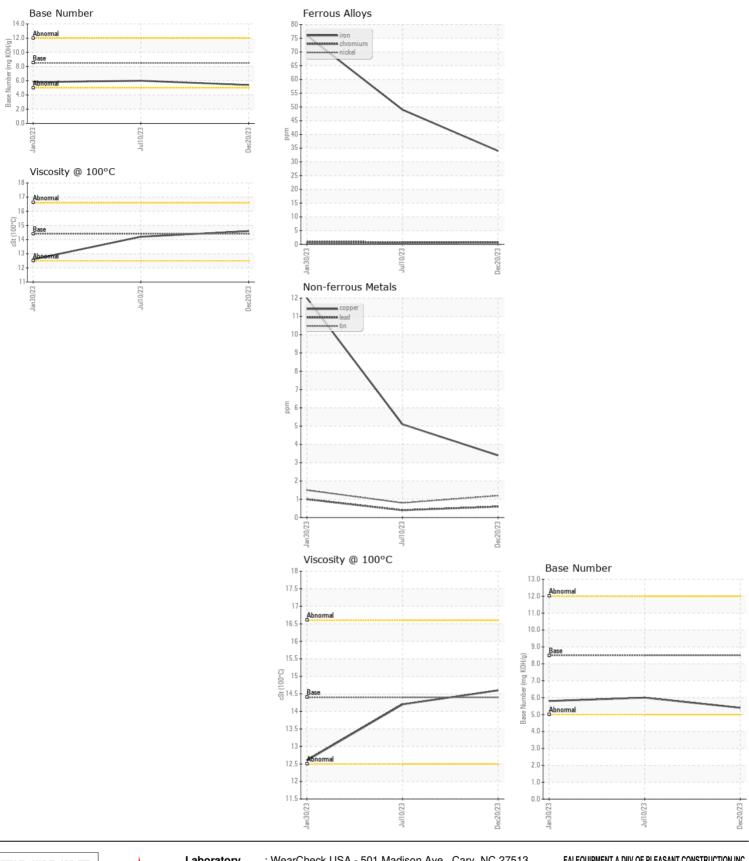
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0804154	WC0804125	WC0546621
Resample at the next service interval to monitor. Please specify the	Sample Date		Client Info		20 Dec 2023	10 Jul 2023	30 Jan 2023
brand, type, and viscosity of the oil on your next sample.	Machine Age	mls	Client Info		74061	51360	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	34	49	76
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	27	28	29
	Lead	ppm	ASTM D5185m	>40	<1	<1	1
	Copper	ppm	ASTM D5185m	>330	3	5	12
	Tin	ppm	ASTM D5185m	>15	1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	9	11
Elevated elevations (Al) and (an load (Dh) and not activity (K) levels in	Potassium	ppm	ASTM D5185m	>20	55	67	83
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the	Fuel		WC Method	>5	<1.0	<1.0	<1.0
lubricant and is common on new equipment/components. There is no	Water		WC Method	>0.2	NEG	NEG	NEG
indication of any contamination in the oil.	Glycol		WC Method		NEG	NEG	NEG
•	Soot %	%	*ASTM D7844	>3	0.6	07	0.6

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.

Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	9	9	11
Potassium	ppm	ASTM D5185m	>20	55	67	83
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	24.9	25.1
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
Sodium	ppm	ASTM D5185m	>158	2	3	3
Boron	ppm	ASTM D5185m	250	<1	2	17
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	250 10	<1 <1	2 0	17 0
Barium	ppm	ASTM D5185m	10	<1	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	10	<1 4	0 4	0 4
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	10 100	<1 4 <1	0 4 1	0 4 2
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450	<1 4 <1 62	0 4 1 108	0 4 2 446
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000	<1 4 <1 62 2290	0 4 1 108 2538	0 4 2 446 1715
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000 1150	<1 4 <1 62 2290 1038	0 4 1 108 2538 985	0 4 2 446 1715 766
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000 1150 1350	<1 4 <1 62 2290 1038 1144	0 4 1 108 2538 985 1177	0 4 2 446 1715 766 929
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000 1150 1350 4250	<1 4 <1 62 2290 1038 1144 3601	0 4 1 108 2538 985 1177 4550	0 4 2 446 1715 766 929 2977



EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0804154 Recieved : 16 Jan 2024 24024 FREDERICK ROAD Lab Number Diagnosed CLARKSBURG, MD : 06060571 : 16 Jan 2024 : 10831953 Unique Number Diagnostician : Wes Davis US 20871 Test Package : CONST (Additional Tests: TBN) 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. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - EAICLA