

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 

# **KENWORTH T880 T-896 (S/N 1NKZXPEX1PJ225385)**

**Diesel Engine** 

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a new component breaking in.

## Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

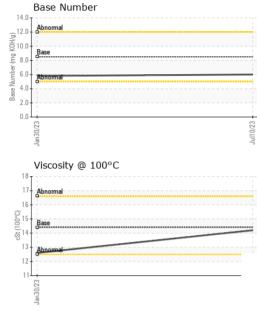
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Jan 2023	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804125	WC0546621	
Sample Date		Client Info		10 Jul 2023	30 Jan 2023	
Machine Age	mls	Client Info		51360	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	49	76	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m	7	<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	28	29	
Lead	ppm	ASTM D5185m	>40	<1	1	
Copper	ppm	ASTM D5185m	>330	5	12	
Tin		ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m	>10	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	250	2	17	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	4	4	
Manganese	ppm	ASTM D5185m	100	1	2	
Magnesium	ppm	ASTM D5185m	450	108	446	
Calcium	ppm	ASTM D5185m	3000	2538	1715	
	ppm	ASTM D5185m	1150	985	766	
Phosphorus Zinc	ppm	ASTM D5185m	1350	1177	929	
Sulfur	ppm	ASTM D5185m	4250	4550	2977	
CONTAMINANTS		method	limit/base	current	history1	history2
			>25	9		
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	3	11	
Potassium	ppm ppm	ASTM D5185m	>136	67	83	
INFRA-RED	PPIII		limit/base	current		history2
	0/	method			history1	
Soot %	% Abolom	*ASTM D7844	>3	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	10.7	11.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	25.1	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	19.4	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.0	5.8	



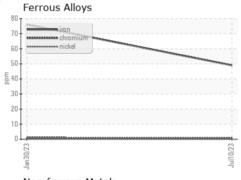
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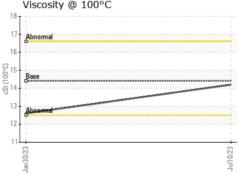
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

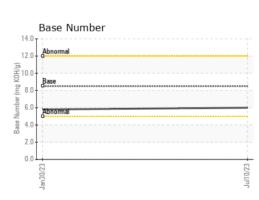
FLUID FROFEI	TIES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	12.6	

### **GRAPHS**



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N	copper lead tin







Laboratory Sample No. Lab Number Unique Number : 10566496 Test Package : CONST ( Additional Tests: TBN )

: 05905140

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0804125

Received Diagnosed

: 24 Jul 2023 : 24 Jul 2023 Diagnostician : Wes Davis

EAI EQUIPMENT A DIIV 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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