

## Machine Id KENWORTH T880 T-884 (S/N 1XKZD40X8PJ225503) **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- GAL)

D	EC		EN	DA <sup>-</sup>	A N
п	EU	WI W	EN	UA.	

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

V	V	E,	Δ	R
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All component wear rates are normal.

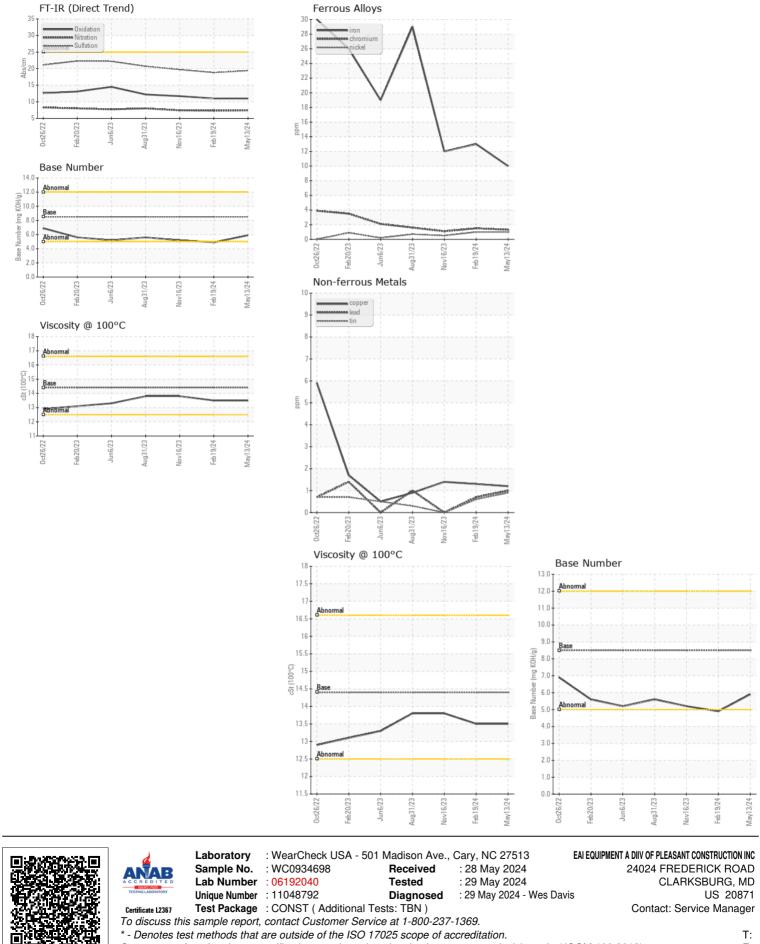
## CONTAMINATION

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 lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0934698	WC0865123	WC0804179
Sample Date		Client Info		13 May 2024	19 Feb 2024	16 Nov 2023
Machine Age	mls	Client Info		163501	146128	129570
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		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
					40	4.0
Iron	ppm	ASTM D5185m	>100	10	13	12
Chromium	ppm	ASTM D5185m	>20	1	2	1
Nickel	ppm	ASTM D5185m	>4	1	1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1	0
Silver	ppm	ASTM D5185m	>3	1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	6	7	7
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	NIGNE	<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	7	7
Potassium	ppm	ASTM D5185m	>20	11	12	15
Fuel	PP	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	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.3	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.8	19.7
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
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Sodium	ppm	ASTM D5185m	>158	3	5	8
Boron	ppm	ASTM D5185m		2	2	0
Barium Malukada mura	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	4	4	1
Manganese	ppm	ASTM D5185m	450	<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	50 0271	52	51
Calcium	ppm	ASTM D5185m	3000	2371	2372	2329
Phosphorus	ppm	ASTM D5185m	1150	954	966	915
Zinc	ppm	ASTM D5185m	1350	1115	1129	1132
Sulfur	ppm	ASTM D5185m	4250	3841	3937	3727
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.0	11.0	11.7 5.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.9 12 5	4.9	
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.5	13.8

## **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.



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - EAICLA Page 2 of 2

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