

### **OIL ANALYSIS REPORT**

I

# KENWORTH T800 3905 (S/N KCB50515)

**Diesel Engine** 

SHELL ROTELLA T 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

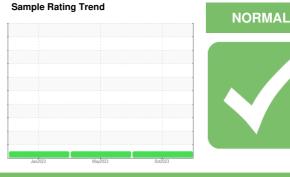
All component wear rates are normal.

#### Contamination

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.



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0822359	WC0613666	WC0613712
Sample Date		Client Info		02 Oct 2023	18 May 2023	24 Jan 2023
Machine Age	mls	Client Info		690457	674495	661888
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	37	26	28
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	1
Lead	ppm	ASTM D5185m	>40	13	16	4
Copper	ppm	ASTM D5185m	>330	13	36	178
Tin	ppm	ASTM D5185m	>15	1	1	1
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	316	15	27	6
Barium	ppm	ASTM D5185m	0.0	0	0	1
Molybdenum	ppm	ASTM D5185m	1.2	67	80	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	864	794	849
Calcium	ppm	ASTM D5185m	2292	1577	1617	1264
Phosphorus	ppm	ASTM D5185m	1064	1109	1130	995
Zinc	ppm	ASTM D5185m	1160	1408	1433	1234
Sulfur	ppm	ASTM D5185m	4996	3229	3410	2615
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m		6	5	2
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.2	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	23.8	20.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		*ACTM D7/1/	. 05	01.0	01.0	176

Oxidation

Abs/.1mm \*ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 10.1

21.2

7.5

17.6

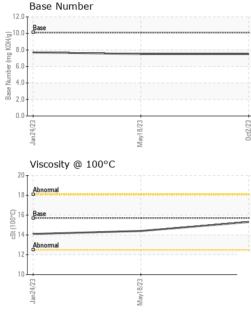
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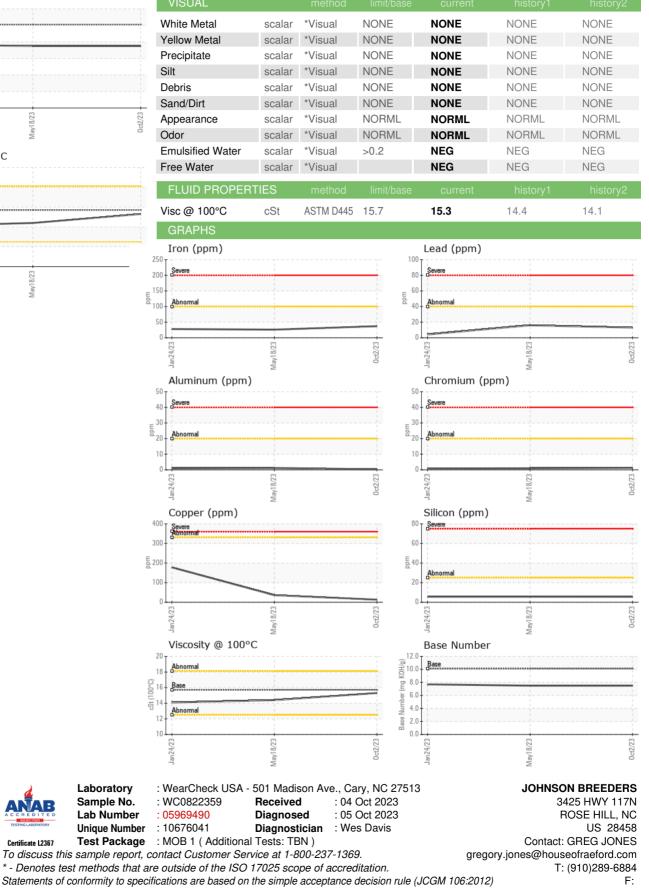
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7.5



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Certificate L2367