

Machine Id **KENWORTH T800 8027 (S/N KCB19973)** Component **Diesel Engine** Fluid SHELL ROTELLA T 15W40 (--- GAL)

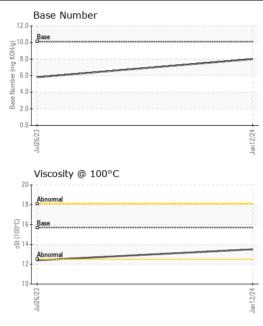
SHELL RUTELLA T 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0878734	WC0613636	
	Sample Date		Client Info		12 Jan 2024	26 Jul 2023	
	Machine Age	mls	Client Info		73577	683990	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>100	56	1 89	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	4	12	
	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	2	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	8	1 20	
	Lead	ppm	ASTM D5185m	>40	6	26	
	Copper	ppm	ASTM D5185m	>330	16	66	
	Tin	ppm	ASTM D5185m	>15	2	7	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	42	1 06	
	Potassium	ppm	ASTM D5185m		5	16	
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	▲ 3.8	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	11.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	24.3	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	12	
	Boron	ppm	ASTM D5185m	316	33	21	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m	1.2	56	75	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m	24	494	447	
	Calcium	ppm	ASTM D5185m	2292	1577	1576	
	Phosphorus	ppm	ASTM D5185m	1064	1047	876	
	Zinc	ppm	ASTM D5185m	1160	1197	1080	
	Sulfur	ppm	ASTM D5185m	4996	3253	2859	
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	18.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.0	5.8	

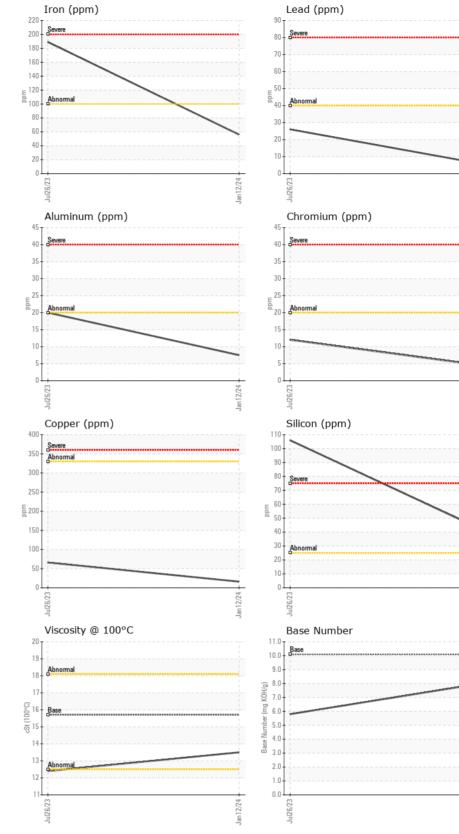
Visc @ 100°C cSt

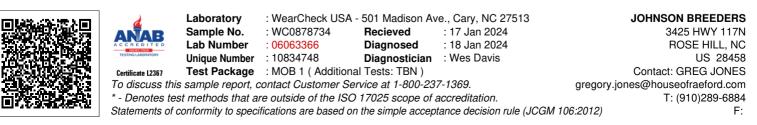
ASTM D445 15.7

13.5

12.4







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