

Machine Id KENWORTH T800 745 (S/N KCB67209) Component **Diesel Engine**

SHELL ROTELLA T 15W40 (--- GAL)

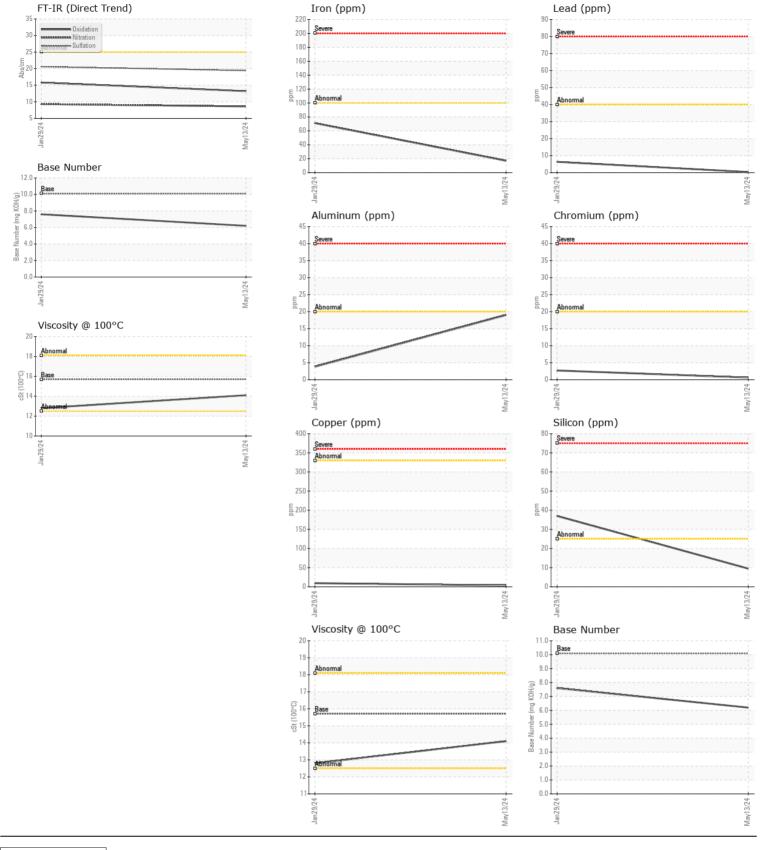
SHELL NOTLELA T ISW40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0878944	WC0878903	
	Sample Date		Client Info		13 May 2024	29 Jan 2024	
	Machine Age	mls	Client Info		987402	980723	
	Oil 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	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m		17	71	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	3	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		1	0	
	Aluminum	ppm	ASTM D5185m	>20	19	4	
	Lead	ppm	ASTM D5185m		<1	6	
	Copper	ppm	ASTM D5185m	>330	4	9	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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.	Silicon	nnm	ASTM D5185m	> 25	10	3 7	
	Potassium	ppm ppm	ASTM D5185m		63	6	
	Fuel	ppm	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.2	NEG	NEG	
	Soot %	%	*ASTM D7844	23	0.2	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.3	
	Sulfation	Abs/.1mm	*ASTM D7024		19.4	20.6	
	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		*Visual	>0.2	NEG	NEG	
		Jouran	violai	20.L		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	6	
	Boron	ppm	ASTM D5185m	316	13	11	
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	18	40	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	24	267	532	
	Calcium	ppm	ASTM D5185m		1940	1235	
	Phosphorus	ppm	ASTM D5185m		859	814	
	Zinc	ppm	ASTM D5185m		1085	974	
	Sulfur	ppm	ASTM D5185m		3555	2503	
	Oxidation	Abs/.1mm	*ASTM D7414		13.2	15.8	
	Base Number (BN)				6.2	7.6	
		0	107110445			10.0	

Visc @ 100°C cSt

ASTM D445 15.7

12.8

14.1



JOHNSON BREEDERS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0878944 Received 3425 HWY 117N : 22 May 2024 ē : 24 May 2024 Lab Number : 06188519 Tested ROSE HILL, NC Unique Number : 11045271 Diagnosed : 24 May 2024 - Wes Davis US 28458 Test Package : MOB 1 (Additional Tests: TBN) Contact: GREG JONES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gregory.jones@houseofraeford.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (910)289-6884 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: