

Machine Id **KENWORTH T880 5689 (S/N 1XKZBP9X3RJ361013)** Component **Diesel Engine** Fluid

SHELL ROTELLA T 15W40 (--- GAL)

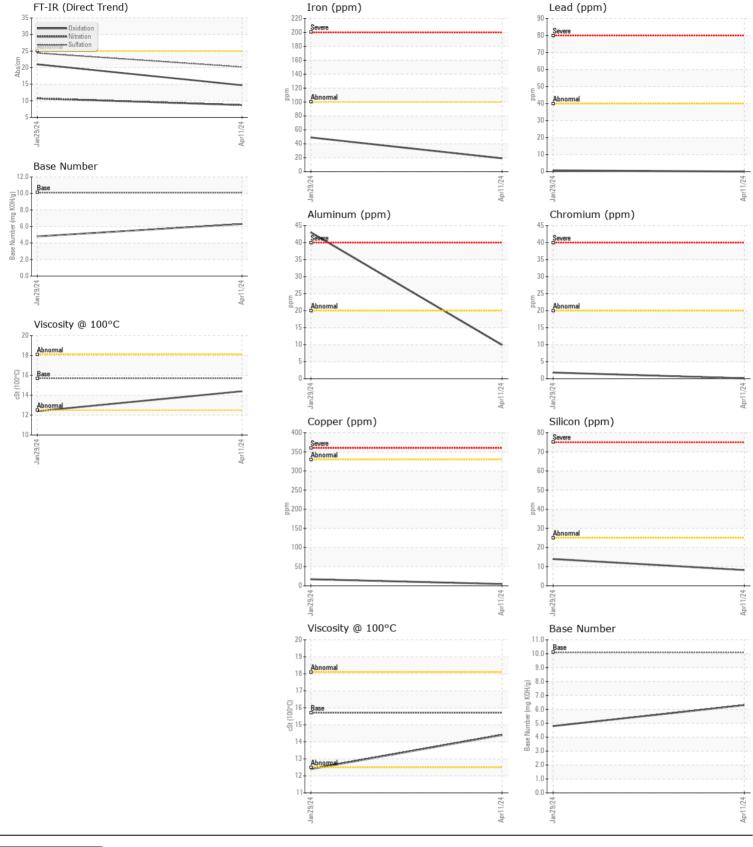
SHELL NOTLELA T ISW40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0878962	WC0878894	
	Sample Date		Client Info		11 Apr 2024	29 Jan 2024	
	Machine Age	mls	Client Info		35733	0	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	MARGINAL	
						40	
WEAR	Iron	ppm	ASTM D5185m		19	49	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m	0	0	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m		10	43	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		5	17	
	Tin	ppm	ASTM D5185m	>15	<1	2	
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	14	
	Potassium	ppm	ASTM D5185m		27	126	
There is no indication of any contamination in the oil.	Fuel			>5	<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	24.4	
	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	Cadium					4	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	216	1	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.		ppm	ASTM D5185m		13	16	
	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m ASTM D5185m	1.2	29	11	
	Manganese	ppm		24	<1	2	
	Magnesium	ppm	ASTM D5185m		434	799	
	Calcium	ppm	ASTM D5185m		2065	1224	
	Phosphorus	ppm	ASTM D5185m		1091	747	
	Zinc	ppm	ASTM D5185m		1286	847	
	Sulfur	ppm	ASTM D5185m		4267	2601	
	Oxidation	Abs/.1mm	*ASTM D7414		14.7	21.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.3	4.8	

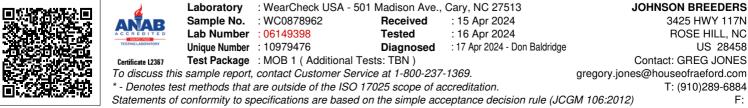
Visc @ 100°C cSt

ASTM D445 15.7

14.4

12.4





Contact/Location: GREG JONES - JOHROSNC Page 2 of 2