

Machine Id 114581 Componer **Diesel Engine** SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION	Toot	UOM	Method	Limit/Abn	Current	History	History 2
RECOMMENDATION Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Test Sample Number	UOIVI	Client Info	LIIIII/ADN	IL0033037	History1 IL0032790	History2
	Sample Number		Client Info		21 May 2024	1L0032790 22 Nov 2023	
	Machine Age	mls	Client Info		61394	43406	
	Oil Age	mls	Client Info		17988	20766	
	Filter Age	mls	Client Info		17988	20766	
	Oil Changed	11115	Client Info	_	Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	35	53	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	3	4	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		1	0	
	Aluminum	ppm	ASTM D5185m	>20	62	122	
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m	>330	3	11	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	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	ppm	ASTM D5185m	>25	13	18	
	Potassium	ppm	ASTM D5185m		120	296	
	Fuel	1-1-		>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.7	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.3	
	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 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		3	0	
	Boron	ppm	ASTM D5185m	316	96	72	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		26	28	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m	24	254	259	
	Calcium	ppm	ASTM D5185m		1893	1962	
	Phosphorus	ppm	ASTM D5185m	1064	976	960	
	Zinc	ppm	ASTM D5185m	1160	1207	1162	
	Sulfur	ppm	ASTM D5185m	4996	3440	3216	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.5	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.0	7.1	
	N" C 1000-	<u> </u>	LOTH DAYS			10.0	

ASTM D445 15.7

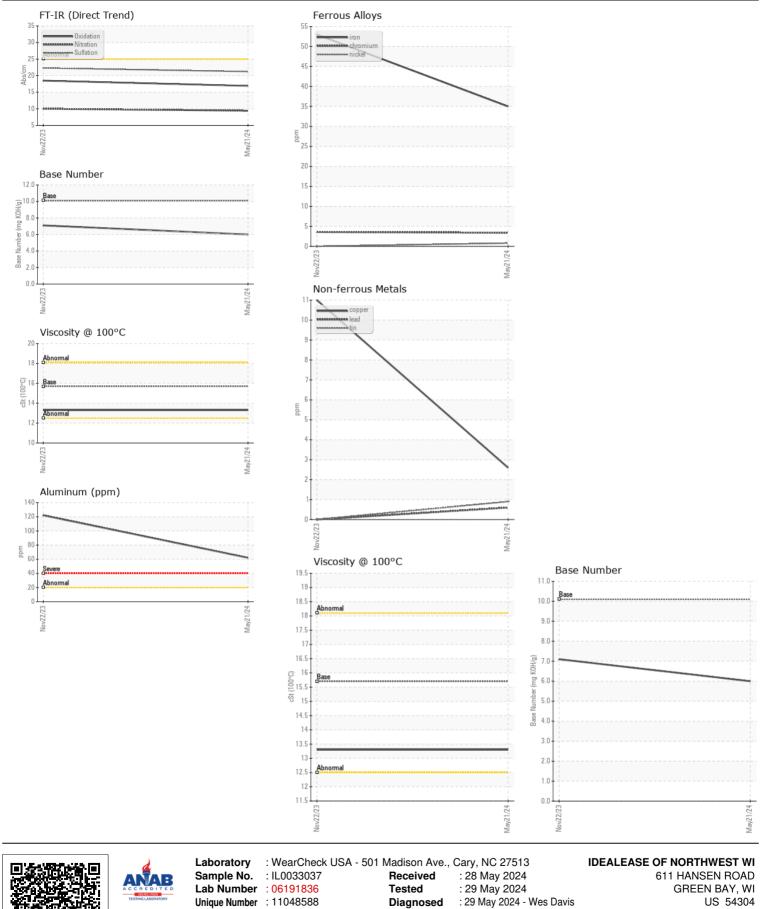
Visc @ 100°C cSt

FLUID CONDITION

13.3

13.3

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL



Certificate 12367 Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: IDEGREWI [WUSCAR] 06191836 (Generated: 05/29/2024 11:11:08) Rev: 1

Contact/Location: GARY KOLTZ - IDEGREWI Page 2 of 2

Contact: GARY KOLTZ

gkoltz@pcitrucks.com

T: (920)499-6200

F: (920)499-5332