

Machine Id **1995 FORD FORD PSD** Component **Diesel Engine** Fluid **SHELL ROTELLA T 15W40 (14 QTS)**

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to confirm this situation, however, a minimum of 10 hours, 500 miles or 800 kilometers on the oil is required before resampling to prevent false positive glycol reactions that can be experienced with new oil. NOTE: Although the glycol test was positive other chemicals other than anti-freeze can cause a similar reaction including the oil additive package, or supplemental oil additives. As there is insufficient evidence (such as high wear metals, or the presence of water) to indicate a serious leak, no other maintenance actions, aside from those recommended here, should be carried out at this time.

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WEAR

All component wear rates are normal.

CONTAMINATION

Test for glycol is positive.

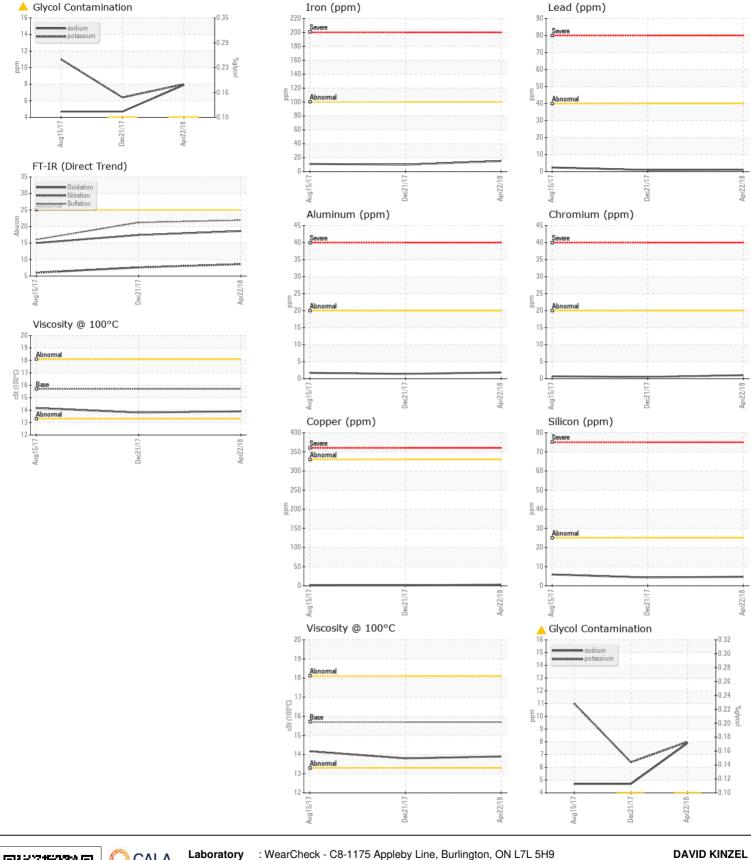
FLUID CONDITION

The condition of the oil is acceptable for the time in service (see recommendation).

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LF501953	LF501964	LF168975
Sample Date		Client Info		22 Apr 2018	21 Dec 2017	15 Aug 2017
Machine Age	mls	Client Info		0	0	209000
Oil Age	mls	Client Info		7337	6800	7000
Filter Age	mls	Client Info		7337	6800	7000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	15	10	11
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	2
Lead	ppm	ASTM D5185(m)	>40	-	<1	2
Copper	ppm	ASTM D5185(m)	>330	3	1	1
Tin	ppm	ASTM D5185(m)	>15	- <1	<1	<1
Vanadium	ppm	ASTM D5185(m)		<1	<1	0
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Silicon	ppm	ASTM D5185(m)	>25	5	4	6
Potassium	ppm	ASTM D5185(m)	>20	<mark>  8</mark>	<u> </u>	11
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		<b>A</b> 0.10	<b>0</b> .10	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>25	8.6	7.6	6.
Sulfation	Abs/.1mm	ASTM D7415*	>35	21.9	21.2	16.
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		8	5	5
Boron	ppm	ASTM D5185(m)	35	160	154	99
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	3	2	2
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	10	15	15	11
Calcium	ppm	ASTM D5185(m)	2340	2334	2269	2532
Phosphorus	ppm	ASTM D5185(m)	1110	1024	981	1039
Zinc	ppm	ASTM D5185(m)	1210	1208	1194	1220
Sulfur	ppm	ASTM D5185(m)	3890	3061	3010	3562
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	17.4	15.
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.9	13.8	14.17
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# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Contact/Location: DAVID KINZEL - DAVWALON



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : LF501953 :02 May 2018 Lab Number : 02213624 Tested :03 May 2018 ISO 17025:2017 Diagnosed Accredited Unique Number : 4680748 : 03 May 2018 - Wes Davis Laboratory Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

111 YOUNGE ST N, BOX 1120 WALKERTON, ON CA NOG 2V0 Contact: DAVID KINZEL kinzeldavid@hotmail.com T: (519)881-4163 F: (519)507-4166

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