

## Machine Id 2018 VOLVO WD-03 Component Diesel Engine Fluid TRC PRO-SPEC IV 15W40 (9 GAL)

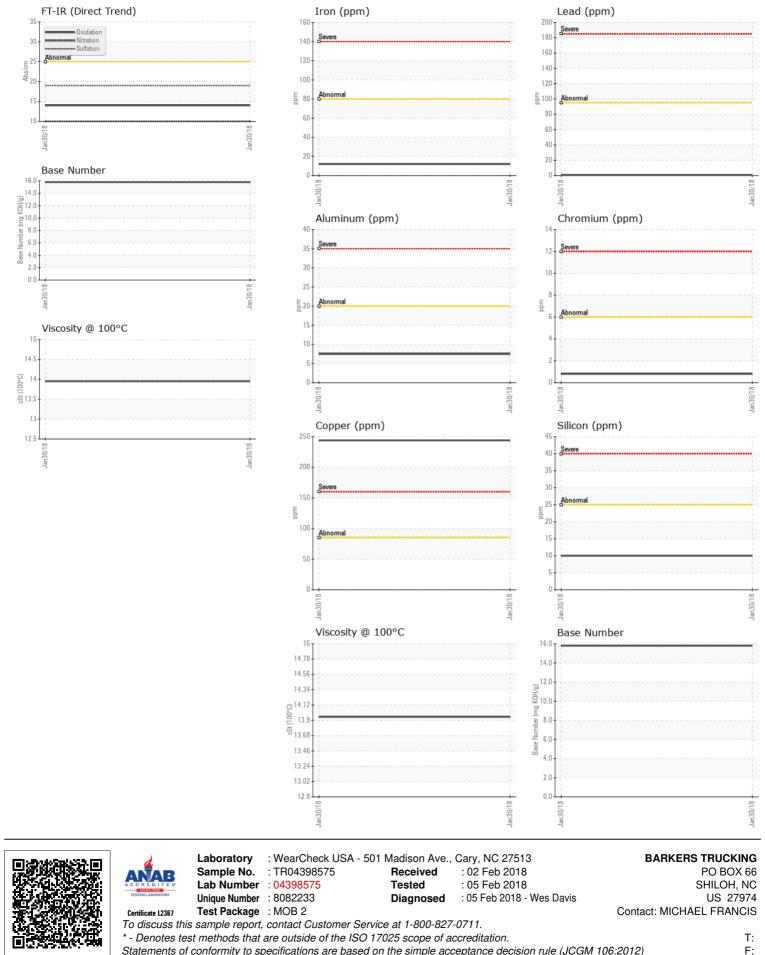
INC PRO-SPECIV 1500	40 (9 GAL)							
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
	l I to monitor.	Sample Number		Client Info		TR04398575		
Resample at the next service interval		Sample Date		Client Info		30 Jan 2018		
		Machine Age	mls	Client Info		22324		
		Oil Age	mls	Client Info		9022		
		Filter Age	mls	Client Info		9022		
		Oil Changed		Client Info		Not Changd		
		Filter Changed		Client Info		Not Changd		
		Sample Status				NORMAL		
WEAR		Iron	ppm	ASTM D5185m		12		
Metal levels are typical for a new con	nponent breaking in.	Chromium	ppm	ASTM D5185m		<1		
		Nickel	ppm	ASTM D5185m		1		
		Titanium	ppm	ASTM D5185m		<1		
		Silver	ppm	ASTM D5185m		1		
		Aluminum	ppm	ASTM D5185m		8		
		Lead	ppm	ASTM D5185m		<1		
		Copper	ppm	ASTM D5185m		244		
		Tin	ppm	ASTM D5185m	>9	0		
		Vanadium	ppm	ASTM D5185m		0		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	10		
CONTAININATION		Potassium	ppm	ASTM D5185m		26		
There is no indication of any contami	nation in the oil.	Fuel	lele	WC Method	>4.0	<1.0		
		Water		WC Method		NEG		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844		0.1		
		Nitration	Abs/cm	*ASTM D7624	>25	10.		
		Sulfation	Abs/.1mm	*ASTM D7415		19.		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	NONE		
		Sand/Dirt	scalar	*Visual	NONE	NONE		
		Appearance	scalar	*Visual	NORML	NORML		
		Odor	scalar	*Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185m		4		
The BN result indicates that there is a	suitable alkalinity remaining in the e for further service.	Boron	ppm	ASTM D5185m		2		
oil. The condition of the oil is suitable		Barium	ppm	ASTM D5185m		0		
		Molybdenum	ppm	ASTM D5185m		43		
		Manganese	ppm	ASTM D5185m		<1		
		Magnesium	ppm	ASTM D5185m		980		
		Calcium	ppm	ASTM D5185m		1923		
		Phosphorus	ppm	ASTM D5185m		1122		
		Zinc	ppm	ASTM D5185m		1279		
		Sulfur	ppm	ASTM D5185m	05	3387		
		Oxidation	Abs/.1mm	*ASTM D7414	>25	14.		
		Base Number (BN)	mg KOH/g	ASTM D2896		15.8		

Visc @ 100°C cSt

ASTM D445

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13.95



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MICHAEL FRANCIS - BARSHINC Page 2 of 2