

**OIL ANALYSIS REPORT** 

## Machine Id FORD 2014 F350 Component Gasoline Engine Fluid TRC PRO-SPEC MULTI-VIS SB 5W20 (7 QTS)

RECOMMENDATION	<b>–</b> .						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR04374736	TR04139964	
	Sample Date		Client Info		14 Dec 2017	01 Dec 2016	
	Machine Age	mls	Client Info		26711	19224	
	Oil Age	mls	Client Info		7487	5626	
	Filter Age	mls	Client Info		7487	5626	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	×150	82	50	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	1	
	Nickel	ppm	ASTM D5185m		1	<1	
	Titanium	ppm	ASTM D5185m	>5		0	
	Silver	ppm		. 0	<1	-	
		ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		13	10	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		5	5	
	Tin	ppm	ASTM D5185m	>10	0	4	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	9	7	
CONTAMINATION	Potassium	ppm	ASTM D5185m		5	4	
There is no indication of any contamination in the component.	Fuel	ppm	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844		0	0	
	Nitration	Abs/cm	*ASTM D7624	> 25	14.	12.	
	Sulfation	Abs/.1mm	*ASTM D7024		27.	25.	
	Silt		*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar		NONE	NONE	NONE	
		scalar scalar	*Visual *Visual	NORML	NORML	NORML	
	Appearance Odor		*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar		>0.2	NEG	NEG	
		Scalal	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	7	7	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		22	25	
	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m		131	120	
	Manganese	ppm	ASTM D5185m		12	7	
	Magnesium	ppm	ASTM D5185m		25	16	
	Calcium	ppm	ASTM D5185m	4200	1693	1776	
	Phosphorus	ppm	ASTM D5185m		578	608	
	Zinc	ppm	ASTM D5185m		709	646	
	Sulfur	ppm	ASTM D5185m	500	1614	2005	
	Oxidation	Abs/.1mm	*ASTM D3183111	>25	25.	2003	
		MUS/.111111		>20	20.	20.	

Base Number (BN) mg KOH/g ASTM D2896 15

ASTM D445 8.5

Visc @ 100°C cSt

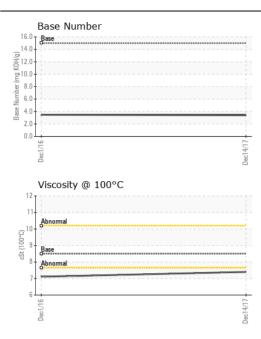
3.48

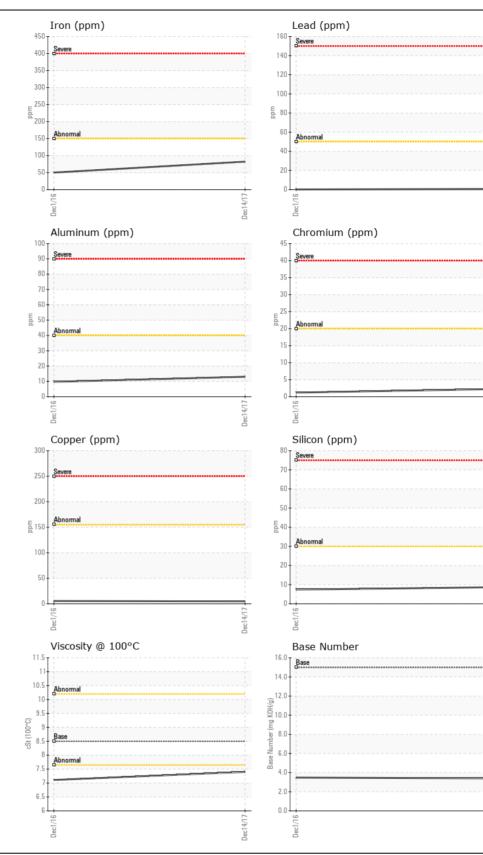
7.11

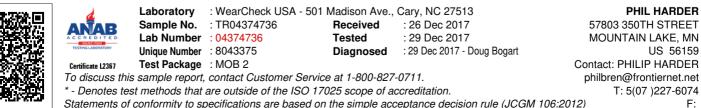
3.40

7.4

----







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

Contact/Location: PHILIP HARDER - PHIMOU

Dec14/1