OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

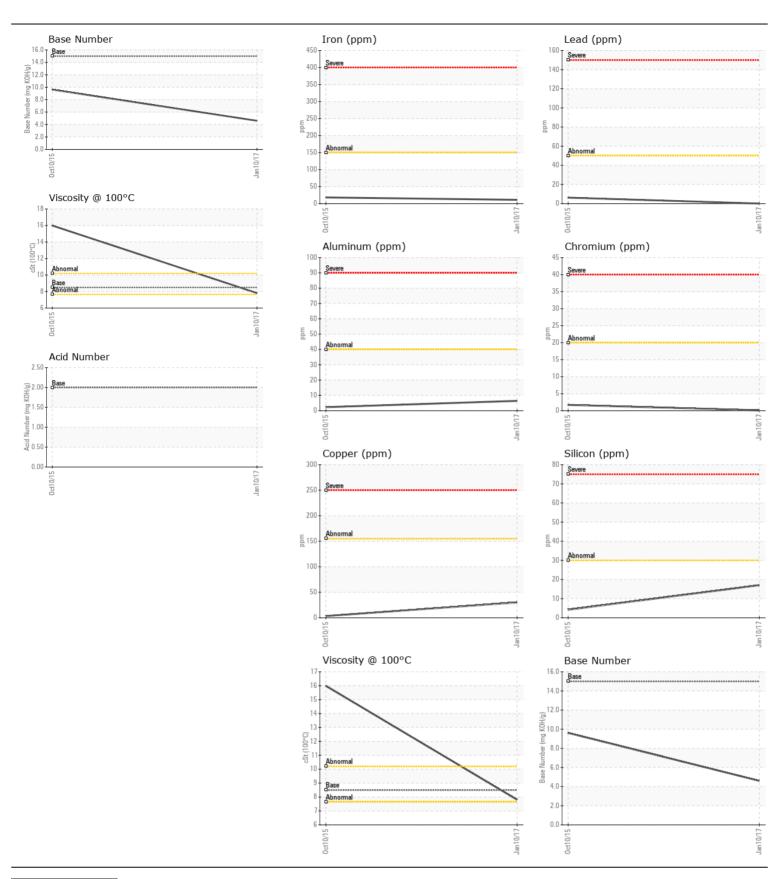
FORD 2015 EXP

Component

Gasoline Engine

Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR04139962	TR03895192	
	Sample Date		Client Info		10 Jan 2017	10 Oct 2015	
	Machine Age	mls	Client Info		27747	12288	
	Oil Age	mls	Client Info		5265	4537	
	Filter Age	mls	Client Info		5265	4537	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		11	18	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>40	6	2	
	Lead	ppm	ASTM D5185m		0	6	
	Copper	ppm	ASTM D5185m		30	3	
	Tin	ppm	ASTM D5185m	>10	3	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 20	17	1	
CONTAMINATION		ppm			17 3	4	
There is no indication of any contamination in the component.	Potassium Fuel	ppm	ASTM D5185m WC Method		ა <1.0	<1.0	
			WC Method		< 1.0 NEG		
	Water		WC Method	>0.2	NEG	NEG NEG	
	Glycol Soot %	0/	*ASTM D7844		0	0.1	
	Nitration	% Abo/om	*ASTM D7624		10.	8.	
	Sulfation	Abs/.1mm	*ASTM D7624		21.	14.	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris		*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
······		Scalai	visuai	<i>></i> 0.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	3	4	
	Boron	ppm	ASTM D5185m		27	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		139	196	
	Manganese	ppm	ASTM D5185m		8	<1	
	Magnesium	ppm	ASTM D5185m		16	1015	
	Calcium	ppm	ASTM D5185m	4200	1818	1400	
	Phosphorus	ppm	ASTM D5185m		666	1111	
	Zinc	ppm	ASTM D5185m	800	704	1359	
	Sulfur	ppm	ASTM D5185m		1871	3484	
	Oxidation	Abs/.1mm	*ASTM D7414		16.	14.	
	Base Number (BN)			15	4.60	9.61	
	Visc @ 100°C	cSt	ASTM D445		7.81	15.99	





Laboratory Sample No.

Unique Number : 7663348

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR04139962 Lab Number : 04139962

To discuss this sample report, contact Customer Service at 1-800-827-0711.

Received : 11 Jan 2017 **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: TAN Man)

: 12 Jan 2017

: 12 Jan 2017 - Don Baldridge

MOUNTAIN LAKE, MN US 56159 Contact: PHILIP HARDER philbren@frontiernet.net T: 5(07)227-6074

* - 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)

PHIL HARDER

57803 350TH STREET