

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

FORD F150 RED 1 - F150 (S/N 1FTFW1EVXAFA65250)

Gasoline Engine

TRC PRO-SPEC MULTI-VIS SB 5W20 (7 QTS)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.



All component wear rates are normal.

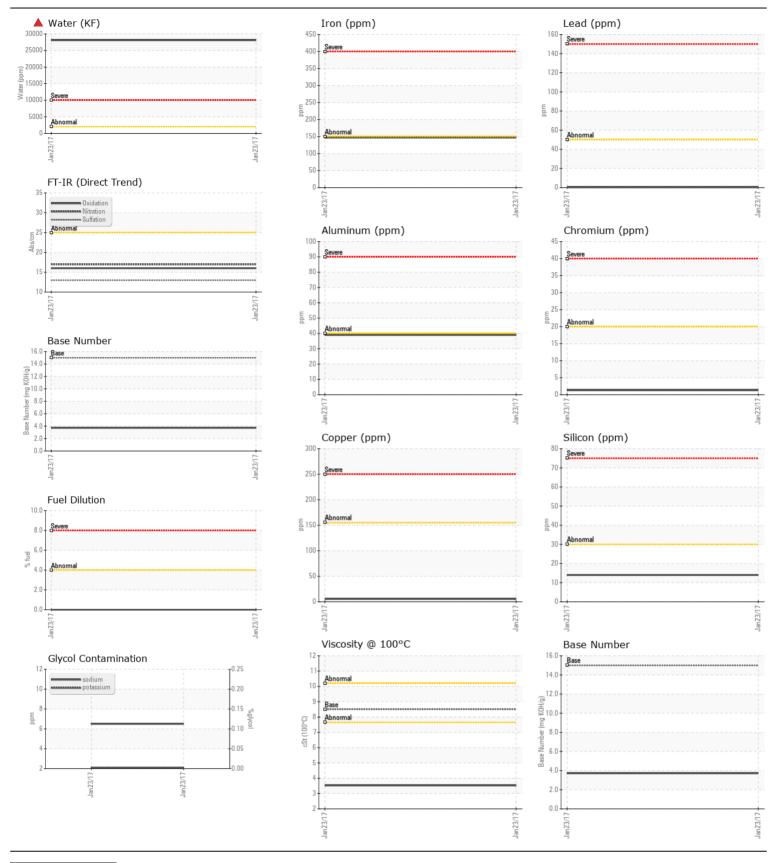
CONTAMINATION

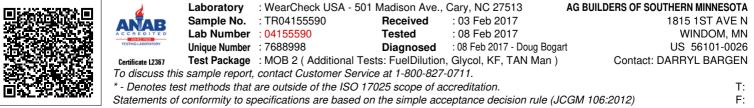
There is a high concentration of water present in the oil. Test for glycol is negative.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR04155590		
Sample Date		Client Info		23 Jan 2017		
Machine Age	mls	Client Info		79000		
Oil Age	mls	Client Info		7000		
Filter Age	mls	Client Info		7000		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				SEVERE		
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Iron	ppm	ASTM D5185m	>150	147		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>5	1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>40	39		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
	304141	13041				
Silicon	ppm	ASTM D5185m	>30	14		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>4.0	<1.0		
Water	%	ASTM D6304	>0.2	2.81		
ppm Water	ppm	ASTM D6304	>2000	28100		
Glycol	%	*ASTM D2982		NEG		
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624		17.		
Sulfation	Abs/.1mm	*ASTM D7415		13.		
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	>0.2	▲ 2.0%		
Sodium	ppm	ASTM D5185m	>400	6		
Boron	ppm	ASTM D5185m		28		
Barium	ppm	ASTM D5185m		4		
Molybdenum	ppm	ASTM D5185m		108		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m		13		
Calcium	ppm	ASTM D5185m	4200	1366		
Phosphorus	ppm	ASTM D5185m	800	417		
Zinc	ppm	ASTM D5185m	800	684		
Sulfur	ppm	ASTM D5185m		1628		
Oxidation	Abs/.1mm	*ASTM D7414		16.		
Base Number (BN)	mg KOH/g	ASTM D2896	15	3.72		
Visc @ 100°C	cSt	ASTM D445	8.5	3.53		
	501	, 10 1 10 0 140	0.0	0.00		





Contact/Location: DARRYL BARGEN - MICWINMN Page 2 of 2