

#### Machine Id FORD 1FT7W2B63DEA25509 Component Gasoline Engine Fluid TRC PRO-SPEC SYNTHETIC 5W30 (6 LTR)

### RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### **WEAR**

Iron ppm levels are severe. Nickel ppm levels are abnormal. Aluminum ppm levels are noted. Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated.

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# CONTAMINATION

Light fuel dilution occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

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	Test	UOM	Method	Limit/Abn	C	urrent	History1	History2
	Sample Number		Client Info		TR	02629205		
	Sample Date		Client Info		10	Apr 2024		
	Machine Age	kms	Client Info		43	8563		
	Oil Age	kms	Client Info		46	40		
	Filter Age	kms	Client Info		46	640		
	Oil Changed		Client Info		CI	nanged		
	Filter Changed		Client Info			nanged		
	Sample Status					EVERE		
	PQ		ASTM D8184*			13		
	Iron	ppm	ASTM D5185(m)	>150		538		
	Chromium	ppm	ASTM D5185(m)	>20		4		
	Nickel	ppm	ASTM D5185(m)	>5		8		
	Titanium	ppm	ASTM D5185(m)			0		
	Silver	ppm	ASTM D5185(m)	>2		0		
	Aluminum	ppm	ASTM D5185(m)	>40		20		
	Lead	ppm	ASTM D5185(m)	>50		2		
	Copper	ppm	ASTM D5185(m)	>155		42		
	Tin	ppm	ASTM D5185(m)	>10		0		
	Vanadium	ppm	ASTM D5185(m)			0		
	Silicon	ppm	ASTM D5185(m)	>30		91		
	Potassium	ppm	ASTM D5185(m)	>20		9		
	Fuel	%	ASTM D7593*	>4.0		3.5		
	Water		WC Method	>0.2		NEG		
	Glycol	%	ASTM D7922*			0.0		
	Soot %	%	ASTM D7844*			0		
	Nitration	Abs/cm	ASTM D7624*	>20		19.9		
	Sulfation	Abs/.1mm	ASTM D7415*	>30		34.1		
	Emulsified Water	scalar	Visual*	>0.2		NEG		
	Sodium			400		50		
		ppm	ASTM D5185(m)	>400		58		
	Boron	ppm	ASTM D5185(m)			24		
	Barium	ppm	ASTM D5185(m)	100		0		
	Molybdenum	ppm	ASTM D5185(m)	400		53		
	Manganese	ppm	ASTM D5185(m)			10		
	Magnesium	ppm	ASTM D5185(m)	600		348		
	Calcium	ppm	ASTM D5185(m)	1500		889		
	Phosphorus	ppm	ASTM D5185(m)	800		546		
	Zinc	ppm	ASTM D5185(m)	900		625		
	Sulfur	ppm	ASTM D5185(m)			2580		
	Oxidation	Abs/.1mm	ASTM D7414*	>25		37.5		
	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5		2.65		
		oCt	ACTM D7070(m)	10 5	• 🔺	95		

ASTM D7279(m) 10.5

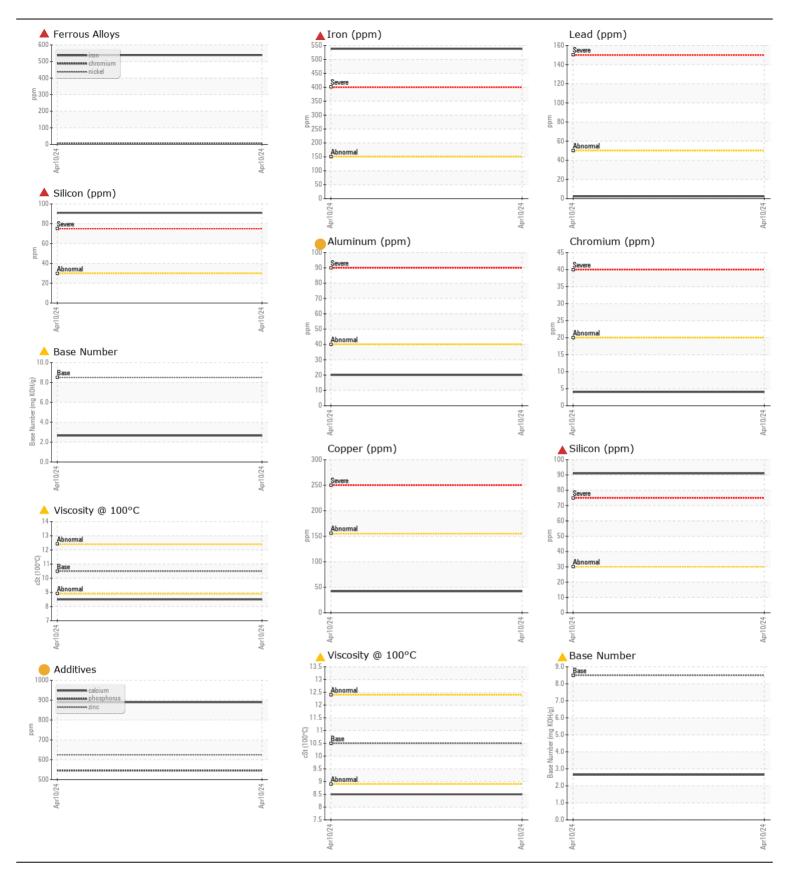
Visc @ 100°C cSt

## FLUID CONDITION

The BN level is low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Contact/Location: David Stahl - VALTOR

8.5



VALLEY VIEW COLONY Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received **BOX 99** : TR02629205 : 16 Apr 2024 Lab Number : 02629205 Tested TORRINGTON, AB : 18 Apr 2024 ISO 17025:2017 Accredited CA TOM 2B0 Unique Number : 5762337 Diagnosed : 18 Apr 2024 - Kevin Marson Laboratory Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, PercentFuel, PQ) Contact: David Stahl To discuss this sample report, contact Customer Service at 1-800-827-0711. vvmech@airenet.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (403)631-3875 F: (403)631-3875 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: David Stahl - VALTOR Page 2 of 2