OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

ATTENTION ABNORMAL ABNORMAL

Machine Id

FORD F150

Component
Gasoline Engine

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number		Client Info		TR06151310		
We advise that you check the air filter, air in	onent. Oil and filter change at the	Sample Date		Client Info		16 Apr 2024		
areas where dirt may enter the component.		Machine Age	hrs	Client Info		15000		
time of sampling has been noted. We recor		Oil Age	hrs	Client Info		5000		
monitor this condition.		Filter Age	hrs	Client Info		5000		
		Oil Changed		Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				ABNORMAL		
WEAR		Iron	ppm	ASTM D5185m	>150	110		
		Chromium	ppm	ASTM D5185m	>20	2		
All component wear rates are normal.		Nickel	ppm	ASTM D5185m	>5	1		
		Titanium	ppm	ASTM D5185m		0		
		Silver	ppm	ASTM D5185m	>2	0		
		Aluminum	ppm	ASTM D5185m	>40	14		
		Lead	ppm	ASTM D5185m	>50	<1		
		Copper	ppm	ASTM D5185m	>155	16		
		Tin	ppm	ASTM D5185m	>10	0		
		Vanadium	ppm	ASTM D5185m		0		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185m		▲ 36		
Elemental levels of silicon (Si) and aluminum (AI) inc silicate (coarse dirt) ingress. There is a light concent present in the oil.	m (Al) indicate alumina	Potassium	ppm	ASTM D5185m		8		
		Fuel	%	ASTM D3524	>4.0	<1.0		
	a light concentration of water	Water	%	ASTM D6304		△ 0.238		
		ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844		0.1		
		Nitration	Abs/cm	*ASTM D7624		15.5		
		Sulfation	Abs/.1mm		>30	30.5		
		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	0.2%		
I LIID CONDITION		Sodium	nnm	ASTM D5185m	× 100	14		
FLUID CONDITION		Boron	ppm	ASTM D5185m	>400	16		
The BN level is low.		Barium	ppm	ASTM D5165III		0		
		Molybdenum	ppm		400			
		Manganese	ppm	ASTM D5185m ASTM D5185m	400	116 29		
		Magnesium	ppm		600	9		
		•	ppm	ASTM D5185m				
		Calcium	ppm	ASTM D5185m		1593		
		Phosphorus	ppm	ASTM D5185m		545		
		Zinc	ppm	ASTM D5185m	900	677		
		Sulfur	ppm Abo/1mm	ASTM D5185m	. 25	1886		
		Oxidation	Abs/.1mm	*ASTM D7414		38.4		
		Base Number (BN)	mg KOH/g	ASTM D2896	0 5	1.15		

Visc @ 100°C cSt

ASTM D445 8.5

5.2





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06151310 Lab Number : 06151310

Unique Number: 10981388

Tested Diagnosed

: 19 Apr 2024 Test Package: MOB 2 (Additional Tests: FuelDilution, KF, PercentFuel)

Received

: 19 Apr 2024 - Jonathan Hester

: 16 Apr 2024

CHET MILLER 1524 MILLER FARM SER RD HIDALGO, TX US 78557

Contact: STEVE SMITH

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

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