WEAR CONTAMINATION **FLUID CONDITION** **ATTENTION ABNORMAL NORMAL**

OIL ANALYSIS REPORT

Machine Id

FORD 2010 FORD

Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06152194	TR05519914	TR05490159
	Sample Date		Client Info		11 Apr 2024	18 Mar 2022	07 Mar 2022
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Changed	Not Change
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	17	19	16
WEAR	Chromium	ppm	ASTM D5185m		<1 <1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		<u>6</u>	4	5
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m	>155	2	2	2
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10Em	. 20	A 60	OE.	47
	Silicon	ppm	ASTM D5185m		<u>▲</u> 62	25	17
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium Fuel	ppm	ASTM D5185m WC Method		5	5	<1.0
	Water		WC Method		<1.0 NEG	<1.0 NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	16.6	12.3	11.5
	Sulfation	Abs/.1mm	*ASTM D7415		34.4	30.2	27.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	. 400	6	3	2
FLUID CONDITION	Boron	ppm	ASTM D5185m	>400	34	22	16
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.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	400	237	75	73
	Manganese	ppm	ASTM D5185m		1	2	2
	Magnesium	ppm	ASTM D5185m	600	445	574	560
	Calcium	ppm	ASTM D5185m		1608	1299	1145
	Phosphorus	ppm	ASTM D5185m		751	688	659
	Zinc	ppm	ASTM D5185m		971	933	874
	Sulfur	ppm	ASTM D5185m		2798	1829	2023
	Oxidation	Abs/.1mm	*ASTM D7414	>25	38.2	24.1	20.7

4.23

13.6

3.90

14.8

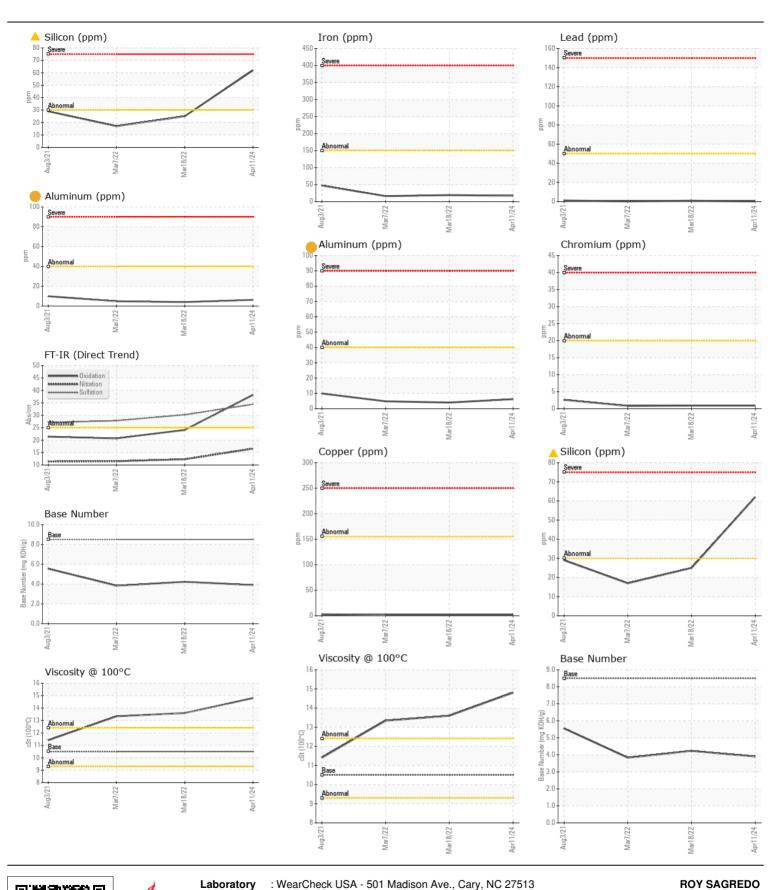
Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 10.5

Visc @ 100°C cSt

3.83

13.34





Laboratory

Sample No. Lab Number : 06152194

: TR06152194

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Unique Number: 10982272 Diagnosed

: 18 Apr 2024 : 22 Apr 2024 - Don Baldridge

: 17 Apr 2024

MISSION, TX US 78572 Contact: ROY SAGREDO JR

Test Package : MOB 2 Certificate L2367 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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F: