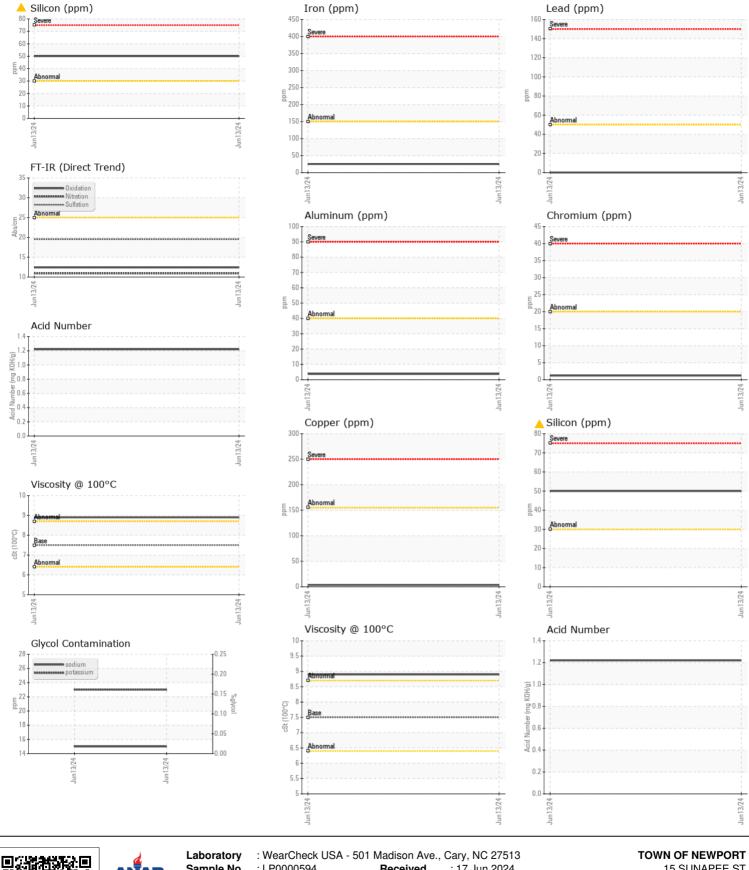


## Machine Id FORD R-1 Component Gasoline Engine Fluid GASOLINE ENGINE OIL SAE 5W20 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LP0000594		
	Sample Date		Client Info		13 Jun 2024		
	Machine Age	mls	Client Info		70547		
	Oil Age	mls	Client Info		3000		
	Filter Age	mls	Client Info		3000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>150	25		
	Chromium	ppm	ASTM D5185m	>20	1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m		ب <1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	<b>6</b> 50		
	Potassium	ppm	ASTM D5185m	>20	23		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5		
	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	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		15		
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		8		
suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	83		
	Manganese	ppm	ASTM D5185m	10	2		
	Magnesium	ppm	ASTM D5185m		434		
	Calcium	ppm	ASTM D5185m		987		
	Phosphorus	ppm	ASTM D5185m		619		
	Zinc	ppm	ASTM D5185m		679		
	Sulfur	ppm	ASTM D5185m		2263		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4		
	Acid Number (AN)			7.5	1.22		
	Visc @ 100°C	cSt	ASTM D445	7.5	8.9		



Sample No. : LP0000594 Received 15 SUNAPEE ST : 17 Jun 2024 Lab Number : 06212552 Tested NEWPORT, NH : 19 Jun 2024 Unique Number : 11085416 : 19 Jun 2024 - Sean Felton US 03773 Diagnosed Test Package : MOB 2 (Additional Tests: Glycol) Contact: DON FREITAS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mechanics@newportnh.gov \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DON FREITAS - TOWNEWWC Page 2 of 2