OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Machine Id
FORD 2021 FORD RANGER XLT FX2 SUPER CAB
Component
Gasoline Engine
Fluid
GASOLINE ENGINE OIL SAE 5W30 (--- QTS)

DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition
Fuel is present in the oil and is lowering the viscosity. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC06138116**	---	---
Sample Date		Client Info		**03 Apr 2024**	---	---
Machine Age	mls	Client Info		**25086**	---	---
Oil Age	mls	Client Info		**2008**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**4**	---	---
Chromium	ppm	ASTM D5185m	>20	**<1**	---	---
Nickel	ppm	ASTM D5185m	>5	**<1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>40	**7**	---	---
Lead	ppm	ASTM D5185m	>50	**<1**	---	---
Copper	ppm	ASTM D5185m	>155	**<1**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	**128**	---	---
Barium	ppm	ASTM D5185m	5	**9**	---	---
Molybdenum	ppm	ASTM D5185m	100	**71**	---	---
Manganese	ppm	ASTM D5185m		**1**	---	---
Magnesium	ppm	ASTM D5185m	12	**514**	---	---
Calcium	ppm	ASTM D5185m	2100	**902**	---	---
Phosphorus	ppm	ASTM D5185m	650	**612**	---	---
Zinc	ppm	ASTM D5185m	850	**730**	---	---
Sulfur	ppm	ASTM D5185m	2500	**2721**	---	---

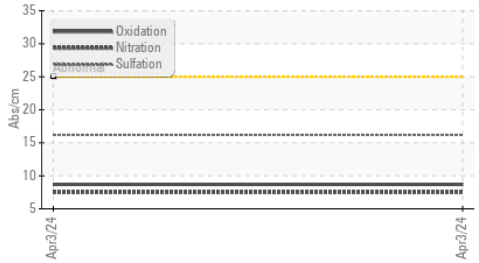
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**11**	---	---
Sodium	ppm	ASTM D5185m	>400	**3**	---	---
Potassium	ppm	ASTM D5185m	>20	**22**	---	---
Fuel	%	ASTM D3524	>4.0	▲ **3.9**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**7.5**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**16.2**	---	---

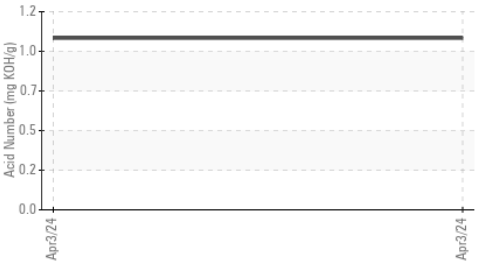
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**8.7**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.04**	---	---

OIL ANALYSIS REPORT

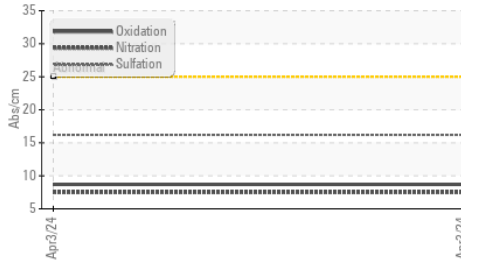
FT-IR (Direct Trend)



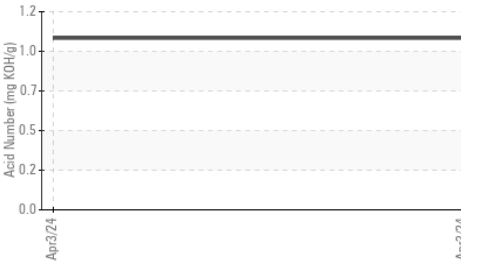
Acid Number



FT-IR (Direct Trend)



Acid Number

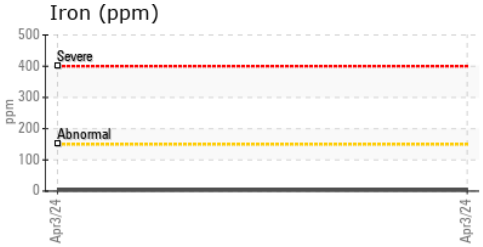


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

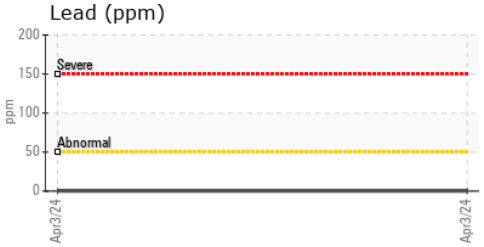
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	▲ **8.0**	---	---

GRAPHS

Iron (ppm)



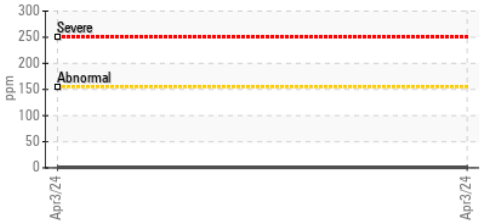
Lead (ppm)



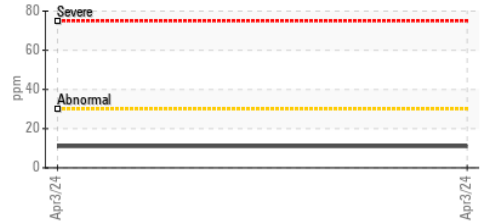
Aluminum (ppm)

Chromium (ppm)

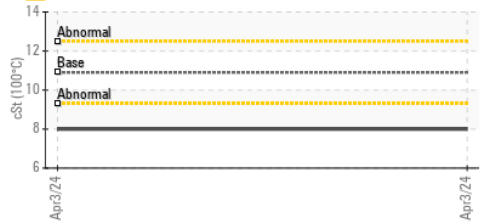
Copper (ppm)



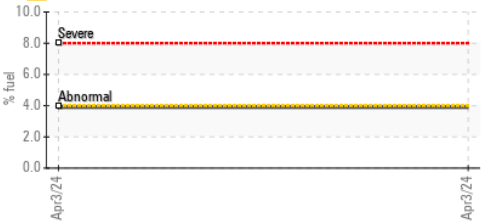
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06138116 **Received** : 03 Apr 2024
Lab Number : 06138116 **Tested** : 11 Apr 2024
Unique Number : 10962924 **Diagnosed** : 11 Apr 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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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