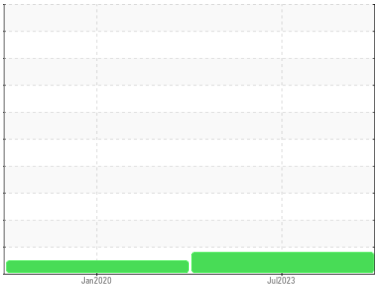
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
2010 FORD 2010 F250
Component
Diesel Engine
Fluid
MOBIL DELVAC 1 5W40 (15 QTS)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
Cylinder, crank, or cam shaft wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0472430**	WCM2327785	---
Sample Date		Client Info		**12 Jul 2023**	28 Jan 2020	---
Machine Age	mls	Client Info		**280000**	215000	---
Oil Age	mls	Client Info		**10000**	10000	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**ABNORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	▲ **109**	40	---
Chromium	ppm	ASTM D5185m	>20	**2**	<1	---
Nickel	ppm	ASTM D5185m	>2	**1**	<1	---
Titanium	ppm	ASTM D5185m	>2	**<1**	0	---
Silver	ppm	ASTM D5185m	>2	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**15**	10	---
Lead	ppm	ASTM D5185m	>40	**5**	1	---
Copper	ppm	ASTM D5185m	>330	**2**	<1	---
Tin	ppm	ASTM D5185m	>15	**<1**	<1	---
Antimony	ppm	ASTM D5185m		**---**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	291	**28**	21	---
Barium	ppm	ASTM D5185m	0.0	**0**	1	---
Molybdenum	ppm	ASTM D5185m	8.0	**61**	53	---
Manganese	ppm	ASTM D5185m		**1**	<1	---
Magnesium	ppm	ASTM D5185m	624	**932**	737	---
Calcium	ppm	ASTM D5185m	2158	**1158**	1551	---
Phosphorus	ppm	ASTM D5185m	1132	**1044**	1014	---
Zinc	ppm	ASTM D5185m	1300	**1265**	1064	---
Sulfur	ppm	ASTM D5185m	3616	**3329**	3992	---

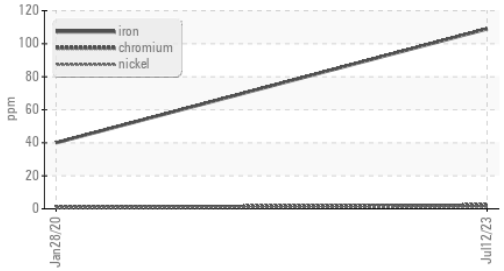
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**15**	6	---
Sodium	ppm	ASTM D5185m		**3**	4	---
Potassium	ppm	ASTM D5185m	>20	**5**	4	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.3**	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	**12.8**	9.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**29.0**	21.8	---

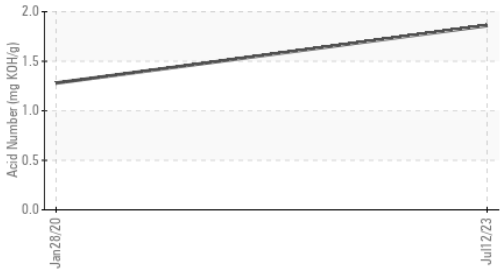
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**31.1**	17	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.86**	1.280	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	**8.72**	8.40	---

OIL ANALYSIS REPORT

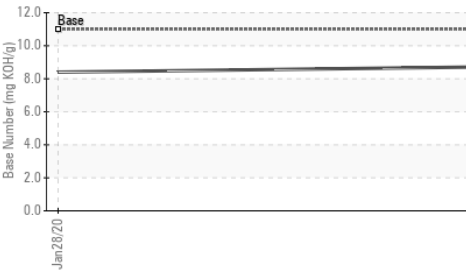
Ferrous Alloys



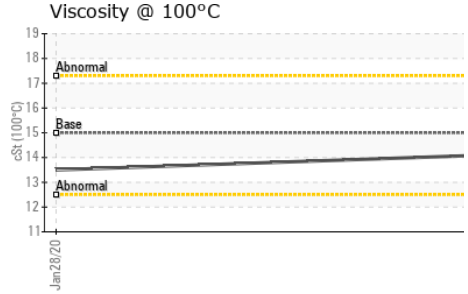
Acid Number



Base Number



Viscosity @ 100°C

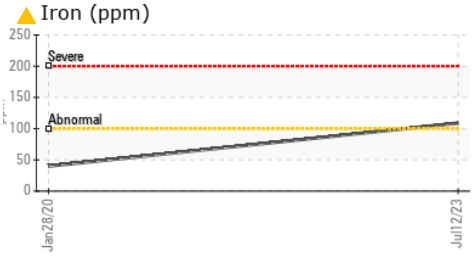


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

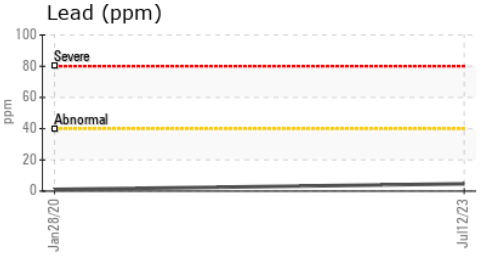
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.0	**14.1**	13.5	---

GRAPHS

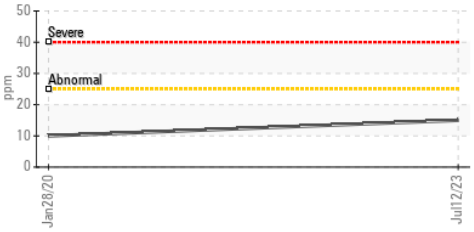
Iron (ppm)



Lead (ppm)

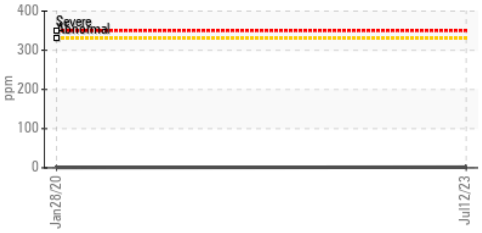


Aluminum (ppm)

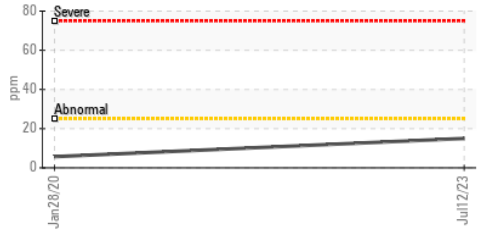


Chromium (ppm)

Copper (ppm)

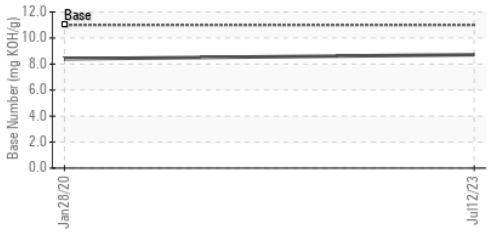


Silicon (ppm)



Viscosity @ 100°C

Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0472430 **Received** : 17 Jul 2023
Lab Number : 05900776 **Diagnosed** : 19 Jul 2023
Unique Number : 10562132 **Diagnostician** : Sean Felton
Test Package : MOB 2

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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