TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
FORD 1FTEW1EPXGKD44322
Component
Gasoline Engine
Fluid
TRC PRO-SPEC SYNTHETIC 5W30 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

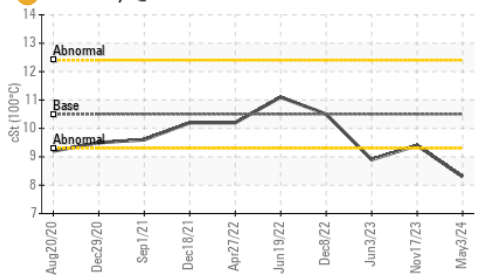
There is no indication of any contamination in the oil.

FLUID CONDITION

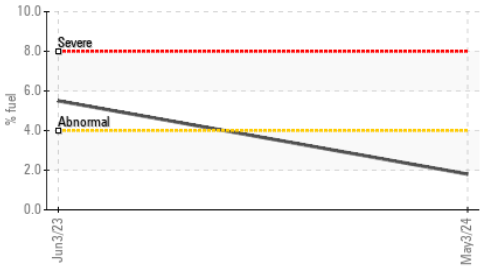
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06176284	TR06018428	TR05873987
Sample Date		Client Info		03 May 2024	17 Nov 2023	03 Jun 2023
Machine Age	mls	Client Info		188480	176745	164362
Oil Age	mls	Client Info		11735	12383	0
Filter Age	mls	Client Info		11735	12383	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	42	33	50
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	5	5	6
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	<1	<1	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	18	24	29
Potassium	ppm	ASTM D5185m	>20	2	<1	4
Fuel	%	ASTM D3524	>4.0	1.8	<1.0	▲ 5.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	15.0	16.5	17.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	27.2	28.1
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>400	4	8	2
Boron	ppm	ASTM D5185m		13	13	10
Barium	ppm	ASTM D5185m		<1	<1	3
Molybdenum	ppm	ASTM D5185m	400	243	247	229
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	600	412	443	405
Calcium	ppm	ASTM D5185m	1500	1321	1366	1202
Phosphorus	ppm	ASTM D5185m	800	613	669	573
Zinc	ppm	ASTM D5185m	900	742	765	715
Sulfur	ppm	ASTM D5185m		2111	1917	1872
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.8	28.7	32.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.02	4.38	4.90
Visc @ 100°C	cSt	ASTM D445	10.5	● 8.3	9.4	▲ 8.9

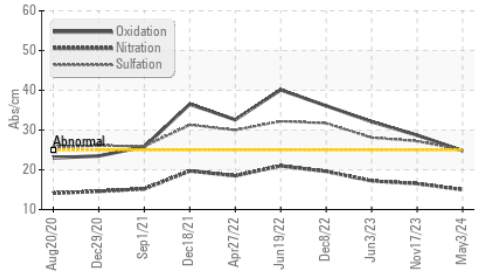
Viscosity @ 100°C



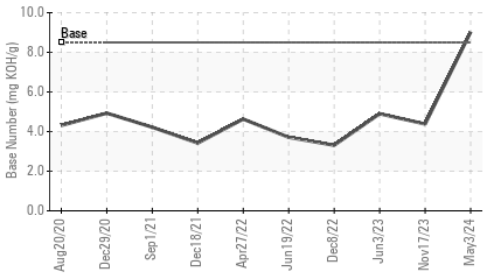
Fuel Dilution



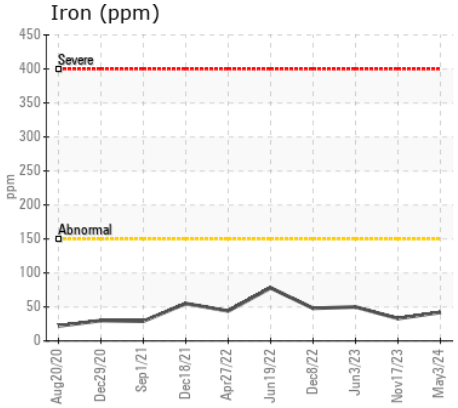
FT-IR (Direct Trend)



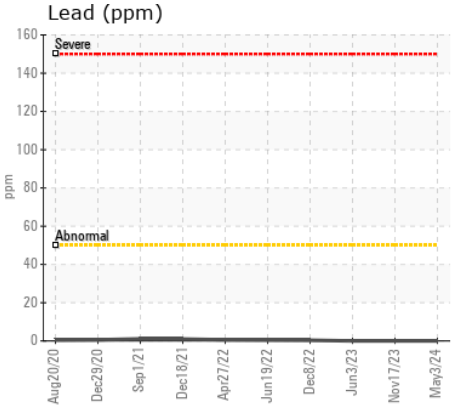
Base Number



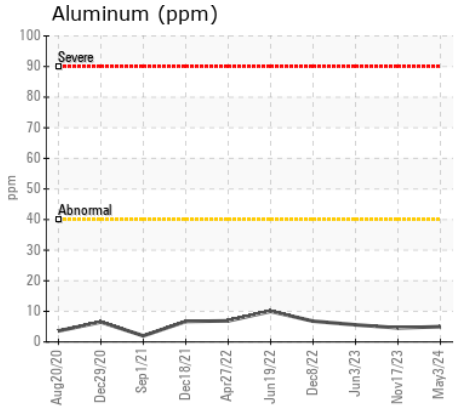
Iron (ppm)



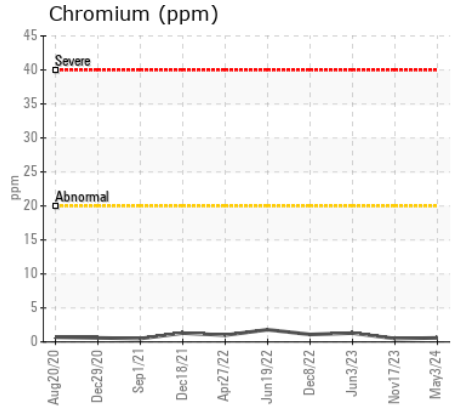
Lead (ppm)



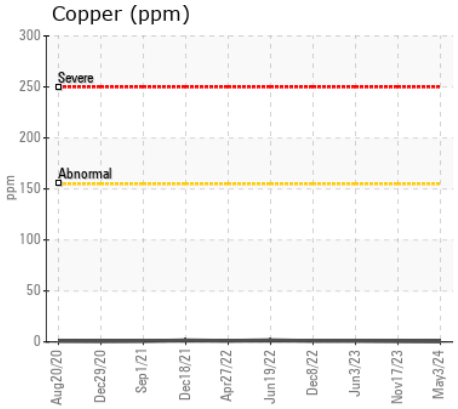
Aluminum (ppm)



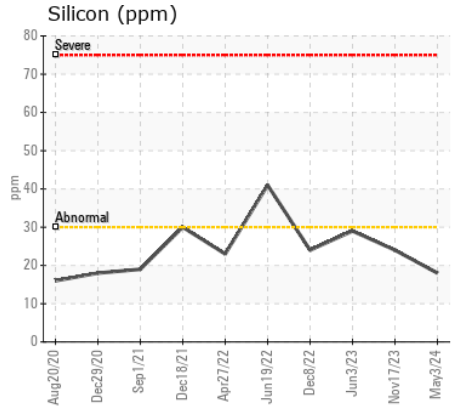
Chromium (ppm)



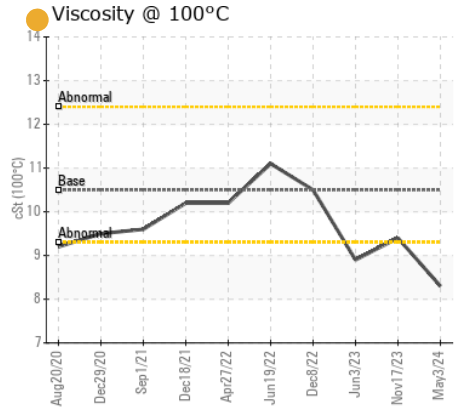
Copper (ppm)



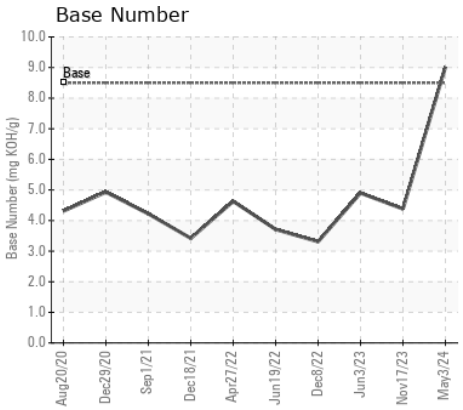
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06176284
Lab Number : 06176284
Unique Number : 11022337
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 10 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Jonathan Hester

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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