TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 2015 EXP
Component
Gasoline Engine
Fluid
TRC PRO-SPEC MULTI-VIS SB 5W20 (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

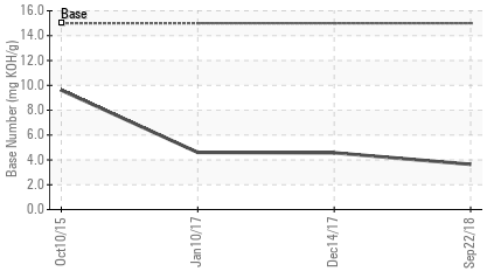
There is no indication of any contamination in the oil.

FLUID CONDITION

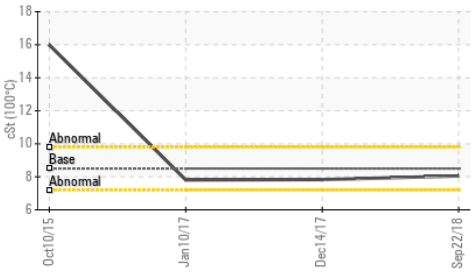
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR04564984	TR04374738	TR04139962
Sample Date		Client Info		22 Sep 2018	14 Dec 2017	10 Jan 2017
Machine Age	mls	Client Info		52438	42179	27747
Oil Age	mls	Client Info		10259	9237	5265
Filter Age	mls	Client Info		10259	9237	5265
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	17	10	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	5	5	6
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	16	18	30
Tin	ppm	ASTM D5185m	>10	<1	0	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	12	9	17
Potassium	ppm	ASTM D5185m	>20	2	4	3
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.7	11.	10.
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	22.	21.
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	5	4	3
Boron	ppm	ASTM D5185m		25	23	27
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		128	137	139
Manganese	ppm	ASTM D5185m		7	4	8
Magnesium	ppm	ASTM D5185m		11	12	16
Calcium	ppm	ASTM D5185m	4200	1785	1783	1818
Phosphorus	ppm	ASTM D5185m	800	550	602	666
Zinc	ppm	ASTM D5185m	800	674	700	704
Sulfur	ppm	ASTM D5185m		1721	1610	1871
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	18.	16.
Base Number (BN)	mg KOH/g	ASTM D2896	15	3.64	4.57	4.60
Visc @ 100°C	cSt	ASTM D445	8.5	8.05	7.83	7.81

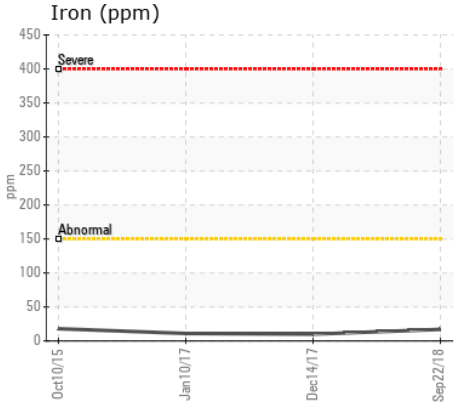
Base Number



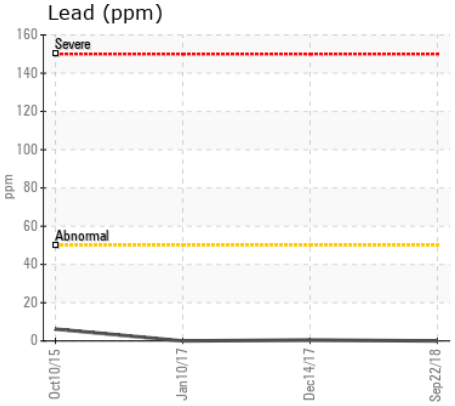
Viscosity @ 100°C



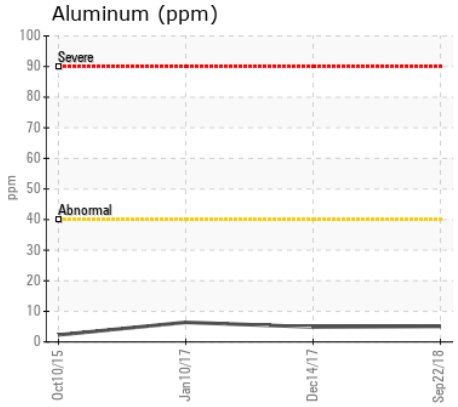
Iron (ppm)



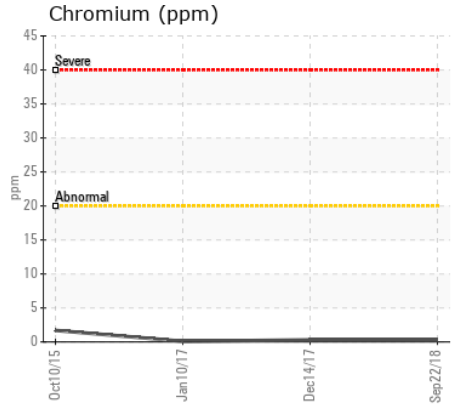
Lead (ppm)



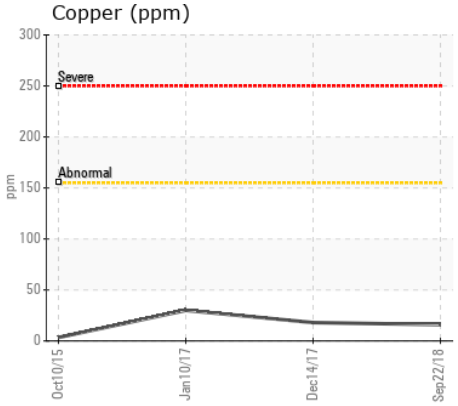
Aluminum (ppm)



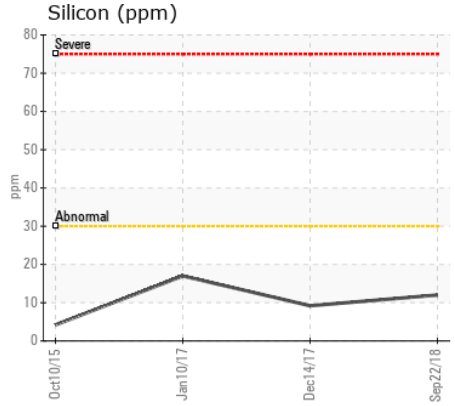
Chromium (ppm)



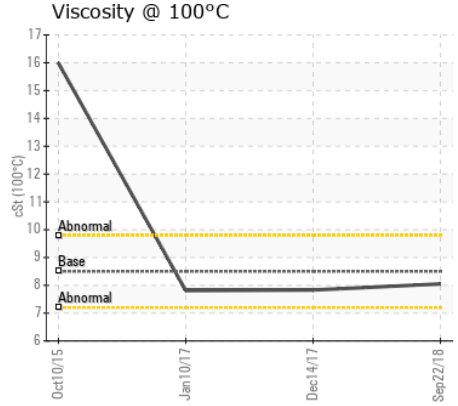
Copper (ppm)



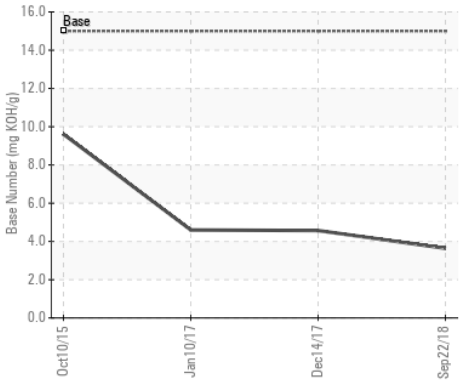
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR04564984
Lab Number : 04564984
Unique Number : 8353891
Test Package : MOB 2

Received : 04 Oct 2018
Tested : 05 Oct 2018
Diagnosed : 05 Oct 2018 - Wes Davis

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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