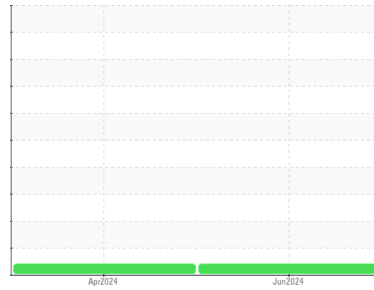




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

601410 - FORD EXPLORER

Component

Gasoline Engine

Fluid

PETRO CANADA DURON ADVANCED 5W30 (--- GAL)

DIAGNOSIS

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. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0006616	SBP0005759	---
Sample Date	Client Info		19 Jun 2024	05 Apr 2024	---
Machine Age	mls	Client Info	142133	137388	---
Oil Age	mls	Client Info	4745	7500	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ATTENTION	ATTENTION	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	9	29	---
Chromium	ppm	ASTM D5185m >20	<1	2	---
Nickel	ppm	ASTM D5185m >5	<1	1	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >40	3	8	---
Lead	ppm	ASTM D5185m >50	2	1	---
Copper	ppm	ASTM D5185m >155	4	10	---
Tin	ppm	ASTM D5185m >10	<1	1	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	76	21	---
Barium	ppm	ASTM D5185m 0	1	9	---
Molybdenum	ppm	ASTM D5185m 43	68	72	---
Manganese	ppm	ASTM D5185m 0	2	4	---
Magnesium	ppm	ASTM D5185m 920	542	492	---
Calcium	ppm	ASTM D5185m 1330	1269	1055	---
Phosphorus	ppm	ASTM D5185m 790	718	703	---
Zinc	ppm	ASTM D5185m 880	852	808	---
Sulfur	ppm	ASTM D5185m 2200	3408	2786	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	12	23	---
Sodium	ppm	ASTM D5185m >400	2	8	---
Potassium	ppm	ASTM D5185m >20	5	4	---
Fuel	%	ASTM D3524 >4.0	<1.0	1.2	---

INFRA-RED

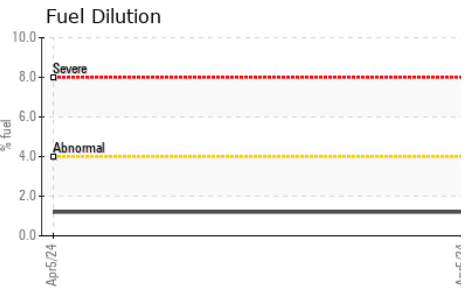
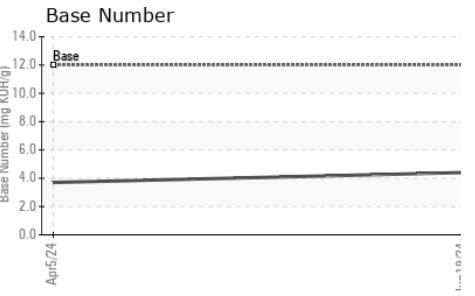
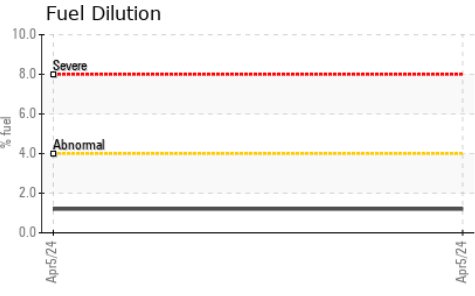
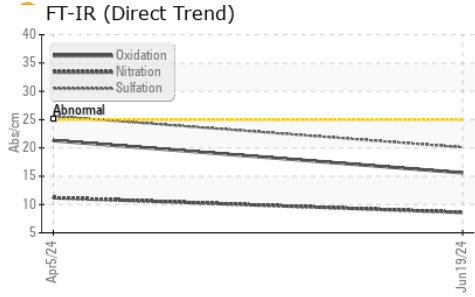
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	8.6	11.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.1	25.6	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.6	21.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 12.0	4.4	3.7	---



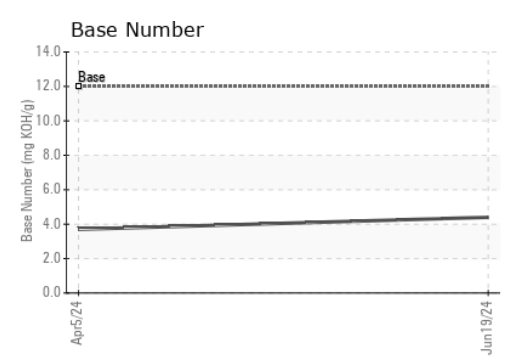
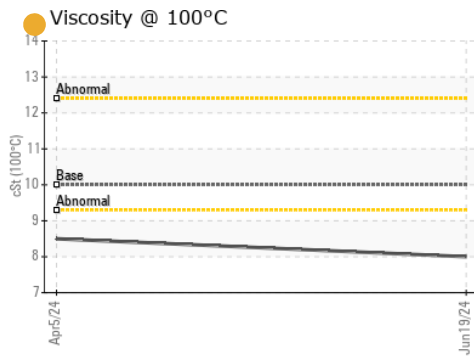
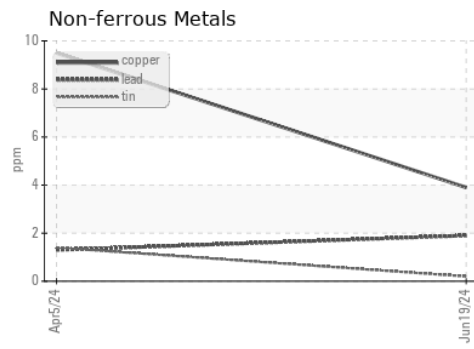
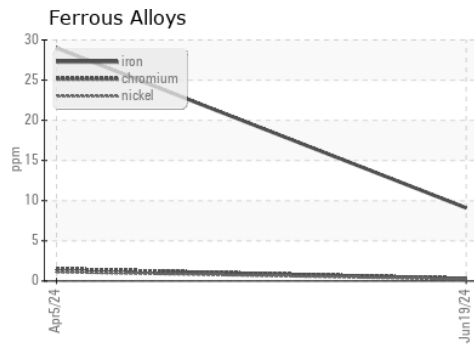
OIL ANALYSIS REPORT



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	10.0	● 8.0	● 8.5	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0006616 **Received** : 24 Jun 2024
Lab Number : 06219008 **Tested** : 26 Jun 2024
Unique Number : 11097205 **Diagnosed** : 26 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Constructors Inc. - 603659
 1815 Y Street
 Lincoln, NE
 US 68508
 Contact: Loren Michael
 LorenM@constructorslincoln.com
 T: (402)434-2157
 F:

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)