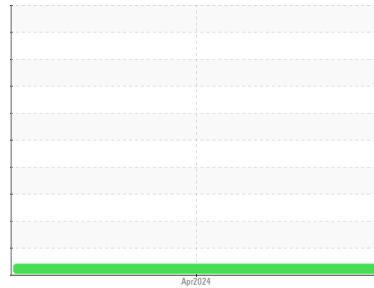




# OIL ANALYSIS REPORT

## 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

Fuel content negligible. 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			<b>SBP0005759</b>	---	---
Sample Date	Client Info			<b>05 Apr 2024</b>	---	---
Machine Age	mls	Client Info		<b>137388</b>	---	---
Oil Age	mls	Client Info		<b>7500</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

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

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>21</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>9</b>	---	---
Molybdenum	ppm	ASTM D5185m	43	<b>72</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m	920	<b>492</b>	---	---
Calcium	ppm	ASTM D5185m	1330	<b>1055</b>	---	---
Phosphorus	ppm	ASTM D5185m	790	<b>703</b>	---	---
Zinc	ppm	ASTM D5185m	880	<b>808</b>	---	---
Sulfur	ppm	ASTM D5185m	2200	<b>2786</b>	---	---

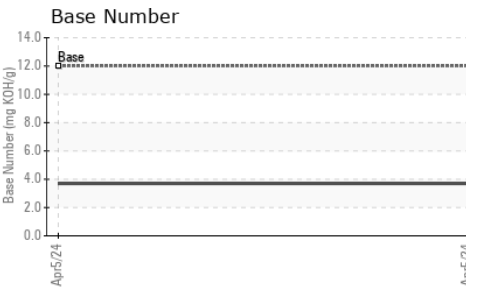
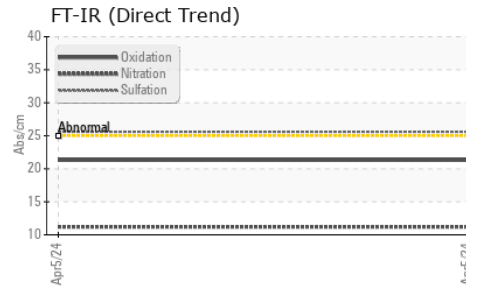
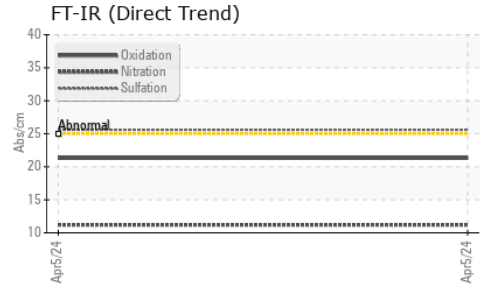
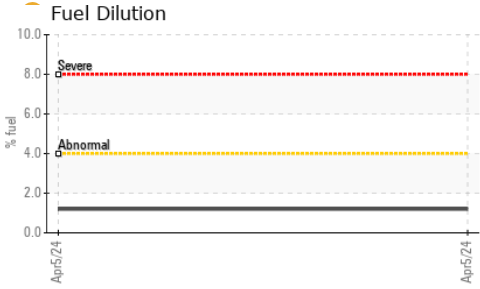
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>23</b>	---	---
Sodium	ppm	ASTM D5185m	>400	<b>8</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Fuel	%	ASTM D3524	>4.0	<b>1.2</b>	---	---

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

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



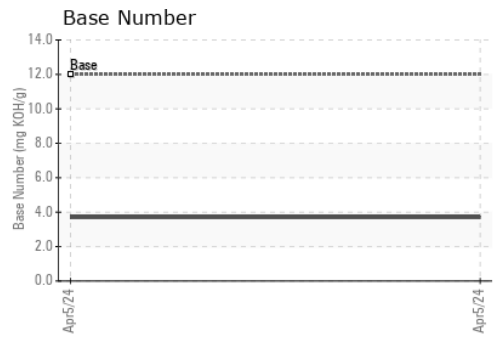
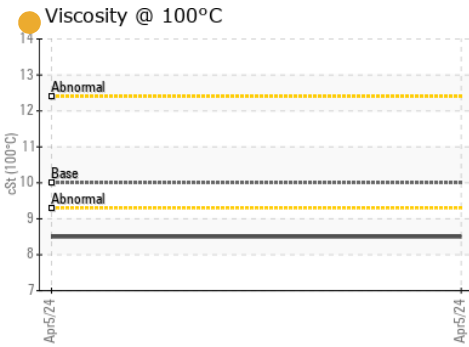
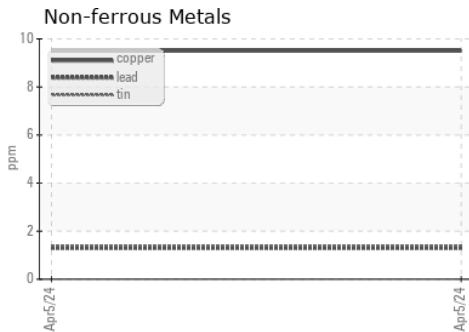
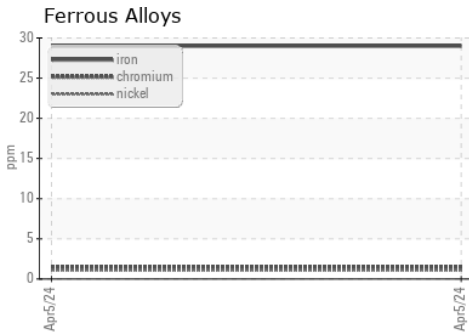
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.0	● 8.5	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0005759      **Received** : 09 Apr 2024  
**Lab Number** : **06143529**      **Tested** : 15 Apr 2024  
**Unique Number** : 10968337      **Diagnosed** : 15 Apr 2024 - Jonathan Hester  
**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)