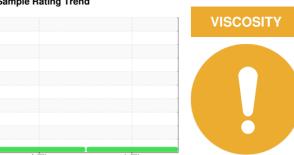


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

601410 - FORD EXPLORER

Gasoline Engine

PETRO CANADA DURON ADVANCED 5W3

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

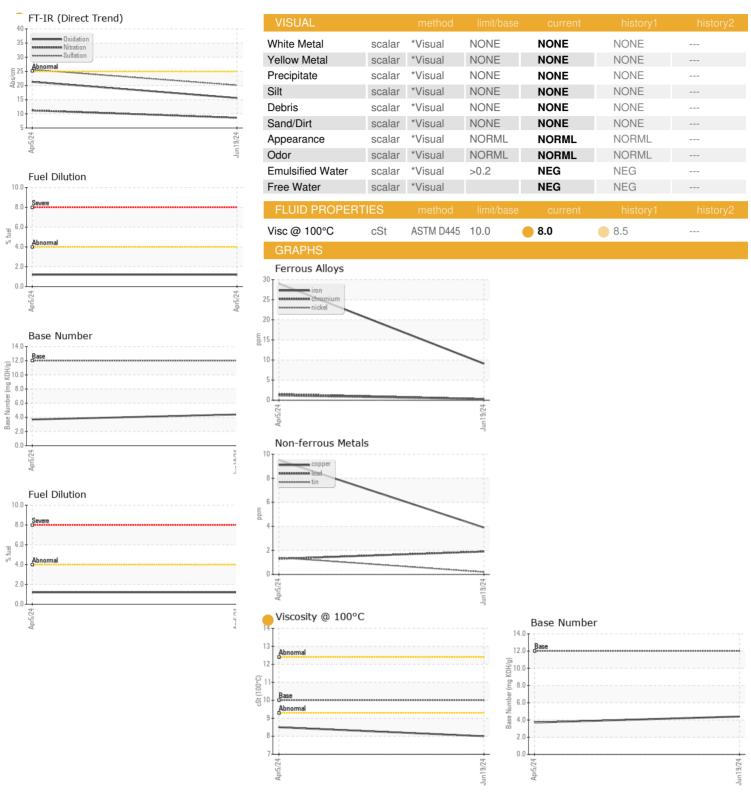
Fluid Condition

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

Machine Age mls Client Info 142133 137388 Oil Age mls Client Info 4745 7500 Oil Changed Client Info Changed Changed	0 (GAL)			Apr2024	Jun2024		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 19 Jun 2024 05 Apr 2024	Sample Number		Client Info		SBP0006616	SBP0005759	
Machine Age mls Client Info 142133 137388 Oil Age mls Client Info 4745 7500 Oil Changed Client Info Changed Changed Sample Status	Sample Date		Client Info		19 Jun 2024	05 Apr 2024	
Oil Age		mls	Client Info				
Client Info		mls	Client Info		4745	7500	
ATTENTION	-		Client Info		Changed	Changed	
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 1 Nickel ppm ASTM D5185m >5 <1 1 Silver ppm ASTM D5185m >5 <1 <1 Silver ppm ASTM D5185m >40 3 8 Silver ppm ASTM D5185m >50 2 1 Copper ppm ASTM D5185m >50 2 1 Copper ppm ASTM D5185m >10 <1 1 Vanadium ppm ASTM D5185m >10 <1 <1	Sample Status				ATTENTION	ATTENTION	
WEAR METALS	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 9 29 Nickel ppm ASTM D5185m >20 <1	Water		WC Method	>0.2	NEG	NEG	
Chromium	Glycol		WC Method		NEG	NEG	
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 <1 1	ron	ppm	ASTM D5185m	>150	9	29	
ASTM D5185m STM D5185m ST	Chromium	ppm	ASTM D5185m	>20	<1	2	
Saliver	Nickel	ppm	ASTM D5185m	>5	<1	1	
Aluminum	Γitanium	ppm	ASTM D5185m		<1	<1	
December December	Silver	ppm	ASTM D5185m	>2	0	0	
Copper	Aluminum	ppm	ASTM D5185m	>40	3	8	
Tim	_ead	ppm	ASTM D5185m	>50	2	1	
Vanadium ppm ASTM D5185m <1 <1 Cadmium ppm ASTM D5185m <1 <1 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0 76 21 Barium ppm ASTM D5185m 0 1 9 Molybdenum ppm ASTM D5185m 0 1 9 Manganese ppm ASTM D5185m 0 2 4 Magnesium ppm ASTM D5185m 920 542 492 Phosphorus ppm ASTM D5185m 920 542 492 Phosphorus ppm ASTM D5185m 920 542 492 Phosphorus ppm ASTM D5185m 790 718 703 Pionsphorus ppm ASTM D5185m 2200 3408 <t< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>155</td><td>4</td><td>10</td><td></td></t<>	Copper	ppm	ASTM D5185m	>155	4	10	
ADDITIVES	Γin	ppm	ASTM D5185m	>10	<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 0 2 4 Magnesium ppm ASTM D5185m 920 542 492 Calcium ppm ASTM D5185m 920 542 492 Phosphorus ppm ASTM D5185m 920 542 492 Phosphorus ppm ASTM D5185m 790 718 703 Phosphorus ppm ASTM D5185m 880 852 808 Zinc ppm ASTM D5185m 2200 3408 2786 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <t< td=""><td>/anadium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td><1</td><td><1</td><td></td></t<>	/anadium	ppm	ASTM D5185m		<1	<1	
Soron ppm ASTM D5185m 0 76 21	Cadmium	ppm	ASTM D5185m		<1	<1	
Barium	ADDITIVES		method	limit/base	current	history1	history2
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 Zinc ppm ASTM D5185m 2200 3408 2786 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 12 23 Solium ppm ASTM D5185m >400 2 8 Potassium ppm ASTM D5185m >20 5 4 Fuel % ASTM D7844 0 </td <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <td>76</td> <td>21</td> <td></td>	Boron	ppm	ASTM D5185m	0	76	21	
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 Zinc ppm ASTM D5185m 2200 3408 2786 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 12 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 12 23 Potatassium ppm ASTM D5185m >20 5 4 Fuel % ASTM D5185m <t< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><td>1</td><td>9</td><td></td></t<>	Barium	ppm	ASTM D5185m	0	1	9	
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 Solicon ppm ASTM D5185m >30 12 23 Codassium ppm ASTM D5185m >400 2 8 Fuel % ASTM D5185m >20 5 4 Fuel % ASTM D5185m >20 5 4 Fuel % ASTM D5185m >20 5 4 Fuel % ASTM D5844 0	Molybdenum	ppm	ASTM D5185m	43	68	72	
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 Soliicon ppm ASTM D5185m >30 12 23 Soldium ppm ASTM D5185m >400 2 8 Potassium ppm ASTM D5185m >20 5 4 Fuel % ASTM D3524 >4.0 <1.0	Manganese	ppm	ASTM D5185m	0	2	4	
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 Soliticon ppm ASTM D5185m >30 12 23 Soliticon ppm ASTM D5185m >400 2 8 Potassium ppm ASTM D5185m >20 5 4 Fuel % ASTM D5185m >20 5 4 Fuel % ASTM D5185m >20 5 4 Fuel % ASTM D3524 >4.0 <1.0 1.2 INFRA-RED method limit/base current history1 history2 Solf % % *ASTM D7624 >20 <t< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td>920</td><td>542</td><td>492</td><td></td></t<>	Magnesium	ppm	ASTM D5185m	920	542	492	
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 Dxidation Abs/.1mm *ASTM D7414 >25 15.6 21.3	Calcium	ppm	ASTM D5185m	1330	1269	1055	
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	Phosphorus	ppm	ASTM D5185m	790	718	703	
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	Zinc	ppm	ASTM D5185m	880	852	808	
Solition ppm ASTM D5185m >30 12 23	Sulfur	ppm	ASTM D5185m	2200	3408	2786	
Sodium	CONTAMINANTS	;	method	limit/base	current	history1	history2
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	Silicon	ppm	ASTM D5185m	>30	12	23	
Tuel	Sodium	ppm	ASTM D5185m	>400	2	8	
INFRA-RED	Potassium	ppm	ASTM D5185m	>20	5	4	
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	-uel	%	ASTM D3524	>4.0	<1.0	1.2	
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	INFRA-RED		method	limit/base	current	history1	history2
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	Soot %	%	*ASTM D7844		0	0.1	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 21.3	Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.2	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	25.6	
	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	21.3	
	Base Number (BN)	ma KOH/a	ASTM D2896	12.0	4.4	3.7	



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006616 Lab Number : 06219008 Unique Number : 11097205

Received : 24 Jun 2024 **Tested** Diagnosed

: 26 Jun 2024 : 26 Jun 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 68508 Contact: Loren Michael LorenM@constructorslincoln.com T: (402)434-2157

Constructors Inc. - 603659

 st - 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) 1815 Y Street

Lincoln, NE