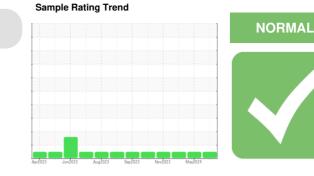


OIL ANALYSIS REPORT



FORD 611 (S/N 1FM5K8AR0HGC56634)

Component Gasoline Engine Fluid

PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)

DIAGNOSIS

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.

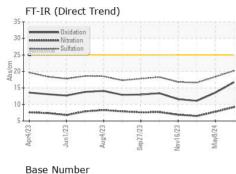
Fluid Condition

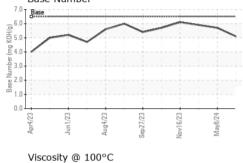
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

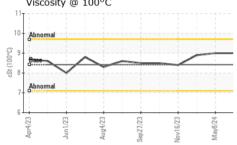
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0129422	PCA0123138	PCA0112904
Sample Date		Client Info		02 Jul 2024	08 May 2024	10 Jan 2024
Machine Age	mls	Client Info		109759	107150	105194
Oil Age	mls	Client Info		2609	1956	901
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	5	4	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	-	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	1	2	1
Lead	ppm	ASTM D5185m	>50	0	<1	1
Copper	ppm	ASTM D5185m	>155	2	2	1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		•	0	0
	PPIII	AGTIVI DJTOJIII		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
	ppm		limit/base 183	-	-	-
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	183	current 29	history1 63	history2 93
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	183 0 36	current 29 0	history1 63 <1	history2 93 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36	current 29 0 67	history1 63 <1 70	history2 93 0 68
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0	current 29 0 67 <1	history1 63 <1 70 <1	history2 93 0 68 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417	current 29 0 67 <1 617	history1 63 <1 70 <1 665	history2 93 0 68 <1 571
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318	current 29 0 67 <1 617 1312	history1 63 <1 70 <1 665 1354	history2 93 0 68 <1 571 1149 752 845
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773	current 29 0 67 <1 617 1312 776	history1 63 <1 70 <1 665 1354 842	history2 93 0 68 <1 571 1149 752
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773 845	current 29 0 67 <1 617 1312 776 925 3268 current	history1 63 <1 70 <1 665 1354 842 1082	history2 93 0 68 <1 571 1149 752 845
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773 845 2690	Current 29 0 67 <1 617 1312 776 925 3268	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19	history2 93 0 68 <1 571 1149 752 845 2762 history2 14
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773 845 2690	current 29 0 67 <1 617 1312 776 925 3268 current	history1 63 <1 70 <1 665 1354 842 1082 3584 history1	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773 845 2690 limit/base >30	current 29 0 67 <1 617 1312 776 925 3268 current 19	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19	history2 93 0 68 <1 571 1149 752 845 2762 history2 14
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method ASTM D5185m	183 0 36 0 417 1318 773 845 2690 imit/base >30 >400	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 current	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 history1	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	183 0 36 0 417 1318 773 845 2690 limit/base >30 >400 >20 limit/base	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 0.1	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 history1 0	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1 history2 14 2 <1 history2 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	method ASTM D5185m	183 0 36 0 417 1318 773 845 2690 <i>imit/base</i> >30 >400 >20 <i>imit/base</i>	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 0.1 9.2	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 0 7.8	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1 history2 0 6.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	183 0 36 0 417 1318 773 845 2690 limit/base >30 >400 >20 limit/base	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 0.1	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 history1 0	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1 history2 14 2 <1 history2 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	183 0 36 0 417 1318 773 845 2690 <i>imit/base</i> >30 >400 >20 <i>imit/base</i>	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 0.1 9.2	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 0 7.8	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1 history2 0 6.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	183 0 36 0 417 1318 773 845 2690 Imit/base >30 >400 >20 Imit/base >20 >20	current 29 0 67 <1 617 1312 776 925 3268 current 19 22 <1 0.1 9.2 20.2	history1 63 <1 70 <1 665 1354 842 1082 3584 history1 19 13 1 history1 0 7.8 18.4	history2 93 0 68 <1 571 1149 752 845 2762 history2 14 2 <1 history2 0 6.5 16.6



OIL ANALYSIS REPORT







	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
-	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Strepton and an address of the owner	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
May8/24 -	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
May	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	8.42	9.0	9.0	8.9
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
May8/24 -	400 - Severe			15	0 Severe		
May	800			튭.10			
	²⁰⁰ Abnormal				Abnormal		
	100-						
	23 <u>- 23</u> 0	23.	23		0	23	23
	Apr4/23 Jun1/23 Aug4/23	Sep27/23	Nov16/23	17/0/24	Apr4/23 Jun1/23	Aug4/23 Sep27/23	Nov16/23
		\$	2 *				2 2
	Aluminum (ppm)			5	Chromium (p		
	80			4	0 - Severe		
	e 60			³	0 -		
May8/24	Abnormal		÷	³ ط	Abnormal		
May	20 -			1	0		
	0				ol		
	Apr4/23 Jun1/23 Aug4/23	Sep 27/23	Nov16/23	t 7/0/24	Apr4/23 Jun1/23	Aug4/23 Sep27/23	Nov16/23 May8/24
	Copper (ppm)	õ	2 *	2	Silicon (ppm)	0,	N N
	300 T Same			8	⁰ Severe		
	250 - Severe			6			
	200 - E 150 - Abnormal			Ed 4			
	100-					~	
	50			2			
	23 23 23 0	53	23			23	23
	Apr4/23 Jun1/23 Aug4/23	Sep 27/23	Nov16/23	HIAY0/2+	Apr4/23 . Jun1/23 .	Aug4/23 Sep27/23	Nov16/23 May8/24
	Viscosity @ 100°C		z ·	-	Base Number	0,	z 4
	¹¹ T			0-			
	10 - Abnormal		1 1	(b/HO) Bull Base Mammung Street Base Mammung S	Base		
				y Bm)	1		
	8 (100-C)			10 4. qu	0		
	7- Abnormal			IN as	0		
	6			+ 0.	0		
	Apr4/23 Jun1/23 Aug4/23	Sep 27/23	Nov16/23	+7/oApiNI	Apr4/23 Jun1/23	Aug4/23 Sep27/23	Vov16/23 May8/24
	Ap Jur Aug	Sep2	Novi	M	Ap	Aug Sep2	Novi
	: WearCheck USA - 50 : PCA0129422 : 06229532	1 Madiso Recei Teste	ived : 05	r, NC 27513 5 Jul 2024 9 Jul 2024	VIL		TH RIVERSID S DESPLAINE I RIVERSIDE,
Sample No. Lab Number Unique Number Test Package	: PCA0129422 : <mark>06229532</mark> : 11113025	Recei Teste Diagr	ived : 05 ed : 09 nosed : 09	5 Jul 2024		2345 NORTH	S DESPLAIN



Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 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)

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Page 2 of 2