

OIL ANALYSIS REPORT

Sample Rating Trend



FORD 803 (S/N 1FTSWZ1548EC83059)

Gasoline Engine

PETRO CANADA SUPREME 5W20 MOTOR

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

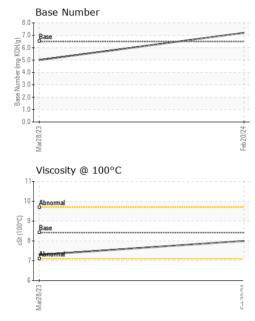
Fluid Condition

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

Sample Number Client Info 20 Feb 2024 28 Mar 2023	OIL (7 GAL)			Mar2023	Feb 2024		
Sample Date Client Info 35476 35135	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 35476 35135	Sample Number		Client Info		PCA0117696	PCA0074314	
Oil Changed	Sample Date		Client Info		20 Feb 2024	28 Mar 2023	
Client Info	Machine Age r	mls	Client Info		35476	35135	
CONTAMINATION	Dil Age r	mls	Client Info		341	887	
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	
Water	Sample Status				NORMAL	NORMAL	
Water WC Method >0.2 NEG NEG	CONTAMINATIO	DN .	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>4.0	<1.0	<1.0	
WEAR METALS method limit/base current history1 If Iron ppm ASTM D5185m >150 14 22	Vater		WC Method	>0.2	NEG	NEG	
Chromium	ilycol		WC Method		NEG	NEG	
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	- '	opm	ASTM D5185m	>150	14	22	
Titanium	Chromium p	opm	ASTM D5185m	>20			
Silver	lickel p	opm	ASTM D5185m	>5	0	0	
Alluminum	itanium p	opm	ASTM D5185m		0		
Lead	Silver	opm		>2		0	
Copper ppm ASTM D5185m >155 4 4	վuminum բ	opm	ASTM D5185m	>40	2	<1	
Tin ppm ASTM D5185m > 10 <1 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 36 55 65 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 0 436 Calcium ppm ASTM D5185m 1318 1072 1106 Phosphorus ppm ASTM D5185m 773 679 673 Sulfur ppm ASTM D5185m 2690 2803 2684 CONTAMINANTS method limit/base current history1 ppm ASTM D5185m > 30 10 14 Sodium ppm ASTM D5185m > 20 1 <1 Potassium ppm ASTM D5185m > 20 1 <1 Sodium ppm ASTM D5185m > 20 7.5 9.1 Sodium Abs/L1mm 'ASTM D7415 > 30 17.8 18.0 FLUID DEGRADATION method limit/base current history1 FLUID DEGRADATION method limit/base current hi	.ead p	opm	ASTM D5185m	>50		0	
Vanadium ppm ASTM D5185m 0 0	Copper	opm	ASTM D5185m	>155	4	4	
Cadmium ppm ASTM D5185m 0 0	in r	opm		>10		0	
ADDITIVES method limit/base current history1 F Boron ppm ASTM D5185m 183 144 148 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 36 55 65 Manganese ppm ASTM D5185m 0 <1	/anadium p	opm	ASTM D5185m		0	0	
Boron ppm ASTM D5185m 183 144 148		opm	ASTM D5185m		0	0	
Barium ppm ASTM D5185m 0 0 0	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 36 55 65	Boron p	opm	ASTM D5185m	183		148	
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 417 580 436 Calcium ppm ASTM D5185m 1318 1072 1106 Phosphorus ppm ASTM D5185m 773 679 673 Zinc ppm ASTM D5185m 845 794 746 Sulfur ppm ASTM D5185m 2690 2803 2684 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >30 10 14 Sodium ppm ASTM D5185m >400 2 1 Potassium ppm ASTM D5185m >20 1 <1 INFRA-RED method limit/base current history1 h Soot % % *ASTM D7844 0	Barium p	opm	ASTM D5185m	0	0	0	
Magnesium ppm ASTM D5185m 417 580 436	/lolybdenum p	opm			55	65	
Calcium ppm ASTM D5185m 1318 1072 1106 Phosphorus ppm ASTM D5185m 773 679 673 Zinc ppm ASTM D5185m 845 794 746 Sulfur ppm ASTM D5185m 2690 2803 2684 CONTAMINANTS method limit/base current history1 history1 <td< td=""><td>/langanese p</td><td>opm</td><td>ASTM D5185m</td><td>0</td><td><1</td><td><1</td><td></td></td<>	/langanese p	opm	ASTM D5185m	0	<1	<1	
Phosphorus ppm ASTM D5185m 773 679 673	/lagnesium p	opm	ASTM D5185m				
Zinc ppm ASTM D5185m 845 794 746 Sulfur ppm ASTM D5185m 2690 2803 2684 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 10 14 Sodium ppm ASTM D5185m >400 2 <1	Calcium p	opm	ASTM D5185m	1318	1072	1106	
Sulfur ppm ASTM D5185m 2690 2803 2684 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >30 10 14 Sodium ppm ASTM D5185m >400 2 <1	'hosphorus p			773	679		
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >30 10 14 Sodium ppm ASTM D5185m >400 2 <1	linc p	opm	ASTM D5185m	845	794	746	
Silicon ppm ASTM D5185m >30 10 14			ASTM D5185m	2690	2803	2684	
Sodium ppm ASTM D5185m >400 2 <1	CONTAMINANT			limit/base		history1	history2
Potassium ppm ASTM D5185m >20 1 <1	Silicon p	opm					
INFRA-RED		opm					
Soot % % *ASTM D7844 0 0.1 Nitration Abs/cm *ASTM D7624 >20 7.5 9.1 Sulfation Abs/.1mm *ASTM D7415 >30 17.8 18.0 FLUID DEGRADATION method limit/base current history1 h		opm	ASTM D5185m	>20	1	<1	
Nitration Abs/cm *ASTM D7624 >20 7.5 9.1 Sulfation Abs/.1mm *ASTM D7415 >30 17.8 18.0 FLUID DEGRADATION method limit/base current history1 history1	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 17.8 18.0 FLUID DEGRADATION method limit/base current history1 h							
FLUID DEGRADATION method limit/base current history1 h	litration /	Abs/cm		>20			
·			*ASTM D7415	>30	17.8	18.0	
Ovidation	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation A05/.111111 A5114107414 >25 10.0 10.0	Oxidation A	Abs/.1mm	*ASTM D7414	>25	10.0	10.8	
Base Number (BN) mg KOHlg ASTM D2896 6.5 7.2 5.0	Base Number (BN)	ng KOH/g	ASTM D2896	6.5	7.2	5.0	



OIL ANALYSIS REPORT





cSt	ASTM D445	8.42	8	7.3	
			Lead (pp	om)	
			Smuore		
			1:		
			Abnormal		
			0		
		520/24	#28/23		Feb20/24
		2		m (nnm)	<u>a</u>
			50 T		
			40 7		
			Abnormal		
			10		
		124	0 53		- 24
		Feb20	Mar28		Feb20/24
				opm)	
			1:		
			4		
			0		
		20/24	Ir28/23		Feb20/24
C		굔		mher	<u></u>
			80-		
			9 6.0 P		
			4.0 +		
			2.0		
		724	0.0		Feb 20/24
		620	17.5		020
			Feb20/24	Lead (pp. 2000 150	Chromium (ppm) Seerce Abnormal Chromium (ppm) Silicon (ppm) Silicon (ppm) Abnormal 100 E28828W Silicon (ppm) Seerce 100 Abnormal 100 E28828W Abnormal 100 E28828W Abnormal 200 E28828W E28828W Abnormal 200 E28828W E2





Laboratory Sample No.

Lab Number : 06105030 Unique Number: 10903260

: PCA0117696

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Feb 2024 : 01 Mar 2024

: 01 Mar 2024 - Wes Davis

US 60546 Contact: Service Manager

VILLAGE OF NORTH RIVERSIDE

vznrdpw@gmail.com T:

2345 S DESPLAINES

NORTH RIVERSIDE, IL

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)

Report Id: VILNOR [WUSCAR] 06105030 (Generated: 03/01/2024 13:33:05) Rev: 1

Contact/Location: Service Manager - VILNOR

F: