

OIL ANALYSIS REPORT

4000 series Ford 4836

Component **Gasoline Engine**

PETRO CANADA SUPREME 5W20 MOTOR OIL (7 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Aluminum ppm levels are noted. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

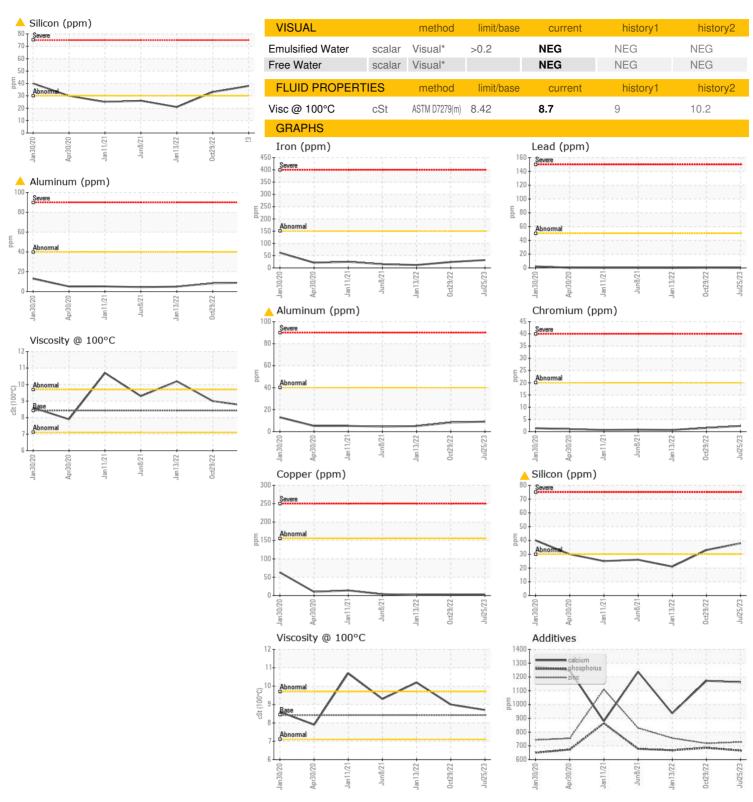
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

		Jan2020	Apr2020 Jan2021	Jun2021 Jan2022 Oct2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828182	WC0744917	WC0651258
Sample Date		Client Info		25 Jul 2023	29 Oct 2022	13 Jan 2022
Machine Age	mls	Client Info		92764	47960	47636
Oil Age	mls	Client Info		45074	54	11260
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<u>^</u> 2.8	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	32	24	12
Chromium	ppm	ASTM D5185(m)	>20	2	2	<1
Nickel	ppm	ASTM D5185(m)	>5	1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	2	14
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<u>^</u> 9	8	5
Lead	ppm	ASTM D5185(m)	>50	0	<1	0
Copper	ppm	ASTM D5185(m)	>155	2	2	2
Tin	ppm	ASTM D5185(m)	>10	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	183	31	33	24
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	36	67	71	93
Manganese	ppm	ASTM D5185(m)	0	2	2	1
Magnesium	ppm	ASTM D5185(m)	417	495	510	635
Calcium	ppm	ASTM D5185(m)	1318	1162	1172	936
Phosphorus	ppm	ASTM D5185(m)	773	666	686	668
Zinc	ppm	ASTM D5185(m)	845	728	718	756
Sulfur	ppm	ASTM D5185(m)	2690	2287	2292	1817
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	▲ 38	△ 33	21
Sodium	ppm	ASTM D5185(m)		12	15	5
Potassium	ppm	ASTM D5185(m)	>20	2	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	18.3	17.8	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	36.0	33.3	24.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	34.4	32.6	20.4



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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WC0828182 : 02576129

: 5629189 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 16 Aug 2023

: 17 Aug 2023 Diagnosed Diagnostician : Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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