



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 200 (S/N 1FM5K8D83JGA99478)
 Component
Gasoline Engine
 Fluid
PETRO CANADA SUPREME 5W20 MOTOR OIL (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0117713	PCA0117699	PCA0112902
Sample Date		Client Info		08 Apr 2024	08 Feb 2024	30 Nov 2023
Machine Age	mls	Client Info		90325	87090	84536
Oil Age	mls	Client Info		3235	2554	4916
Filter Age	mls	Client Info		3235	2554	4916
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	3	2	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	1	2	2
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	4	2	3
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

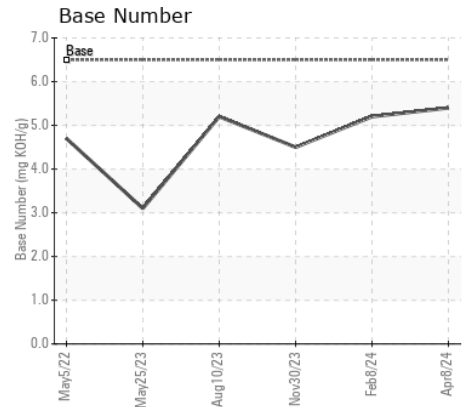
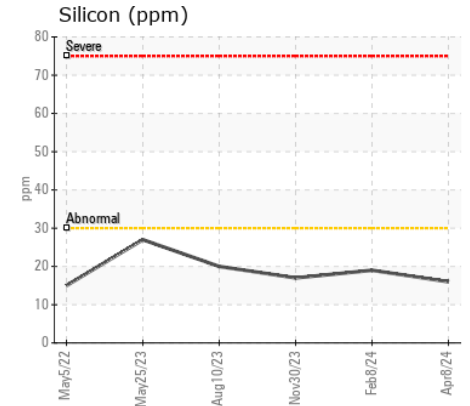
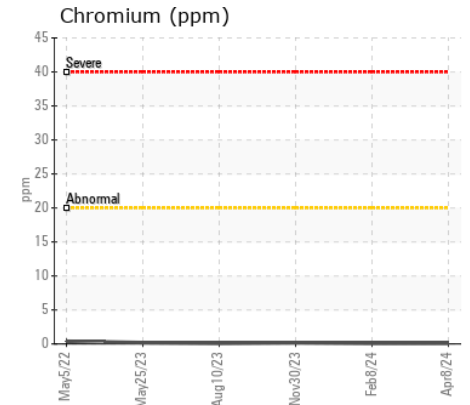
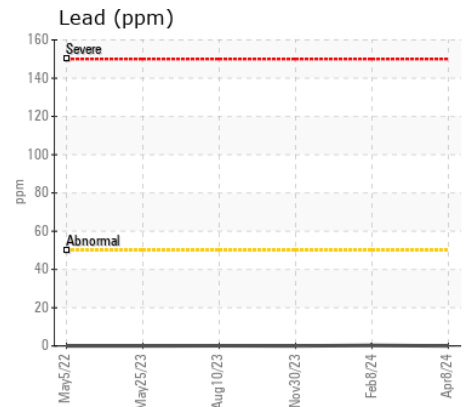
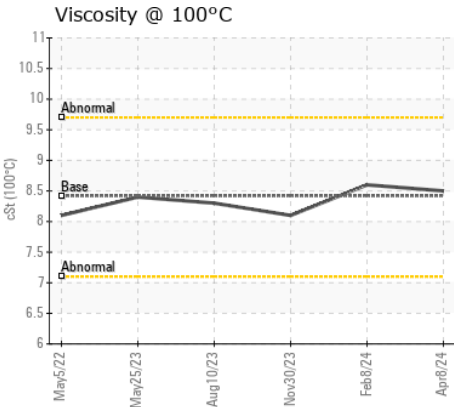
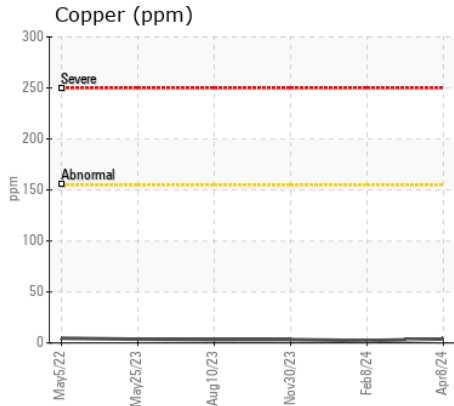
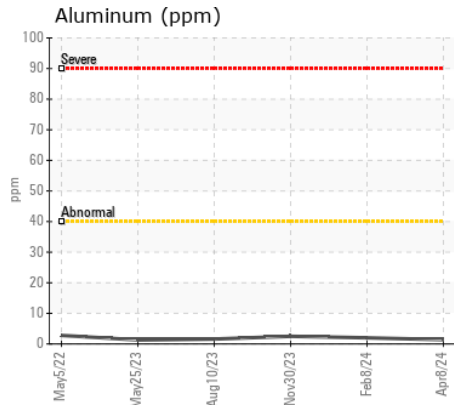
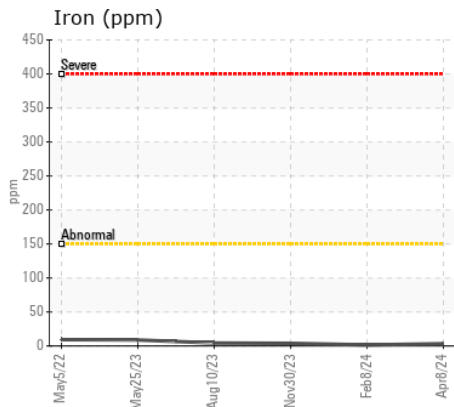
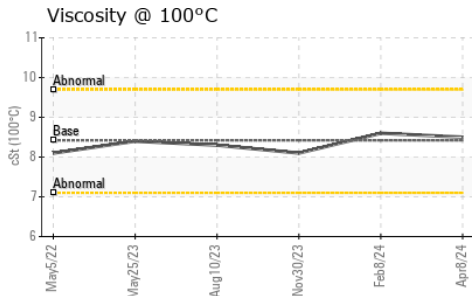
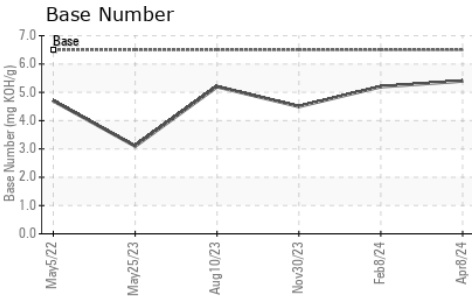
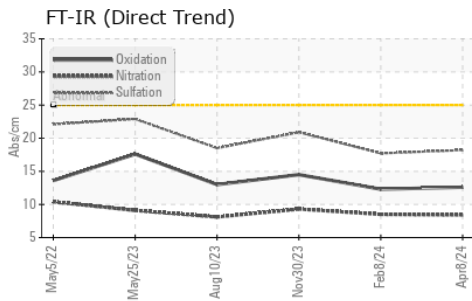
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	16	19	17
Potassium	ppm	ASTM D5185m	>20	1	<1	2
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
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.5	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.7	20.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m	>400	12	3	5
Boron	ppm	ASTM D5185m	183	120	108	51
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	36	64	65	60
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	417	586	587	481
Calcium	ppm	ASTM D5185m	1318	1182	1146	1066
Phosphorus	ppm	ASTM D5185m	773	741	775	685
Zinc	ppm	ASTM D5185m	845	842	885	772
Sulfur	ppm	ASTM D5185m	2690	3143	2896	2754
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	12.3	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	5.4	5.2	4.5
Visc @ 100°C	cSt	ASTM D445	8.42	8.5	8.6	8.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117713
Lab Number : 06155615
Unique Number : 10991038
Test Package : MOB 1 (Additional Tests: TBN)

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Wes Davis

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrpdw@gmail.com

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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