WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE ABNORMAL

Area

[808963]

## **FERRARA P112**

**Front Diesel Engine** 

PETRO CANADA 15W40 (40 LTR)

RECOMMENDATION	

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0812444	WC0418666	WC110620
Sample Date		Client Info		22 Dec 2023	02 Nov 2020	15 Nov 2018
Machine Age	kms	Client Info		101196	56359	2
Oil Age	kms	Client Info		0	0	1
Filter Age	kms	Client Info		0	0	1
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	58	57	64
Chromium	ppm	ASTM D5185(m)	>5	2	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1

## WEAR

Metal levels are typical for a new component breaking in.

Titanium

Aluminum

Silver

Lead

ppm

ppm

ppm

ppm

ASTM D5185(m) >2

ASTM D5185(m) >15

ASTM D5185(m) >25

ASTM D5185(m)

>2

0

8

0

<1

4

5

2

36 <1 0

## **CONTAMINATION**

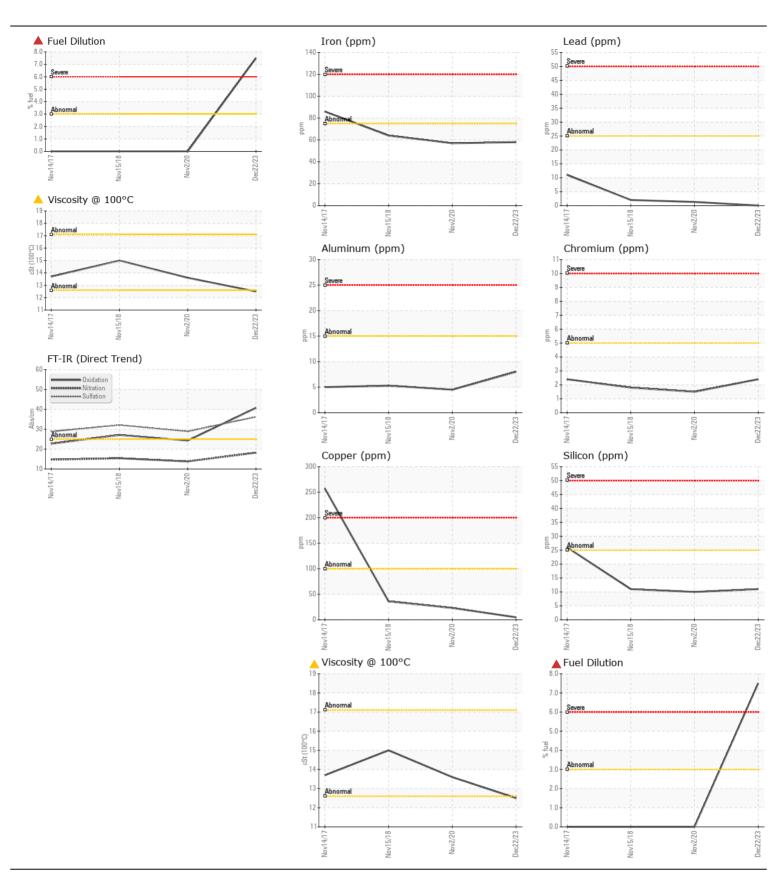
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	11	10	11
Potassium	ppm	ASTM D5185(m)	>20	<1	<u>^</u> 29	<1
Fuel	%	ASTM D7593*	>3.0	<b>4</b> 7.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	<b>△</b> 0.012	NEG
Soot %	%	ASTM D7844*	>6	2.1	1.1	1.5
Nitration	Abs/cm	ASTM D7624*	>20	18.2	13.8	15.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	36.2	28.9	32.1
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Od	or	scalar	Visual*	NORML	NORML		
Em	ulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Soc	dium	ppm	ASTM D5185(m)		4	247	4
Boi	ron	ppm	ASTM D5185(m)		1	9	<1
Baı	rium	ppm	ASTM D5185(m)		<1	0	<1
Мо	lybdenum	ppm	ASTM D5185(m)		55	53	12
Ма	nganese	ppm	ASTM D5185(m)		1	5	2
Ma	gnesium	ppm	ASTM D5185(m)		871	499	206
Cal	lcium	ppm	ASTM D5185(m)		973	1446	2160
Pho	osphorus	ppm	ASTM D5185(m)		852	895	1004
Zin	С	ppm	ASTM D5185(m)		1042	1179	1253
Sul	lfur	ppm	ASTM D5185(m)		2236	2766	3183
Oxi	idation	Abs/.1mm	ASTM D7414*	>25	40.7	24.3	27.1
Vis	c @ 100°C	cSt	ASTM D7279(m)		<u> </u>	13.6	15.0





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number Unique Number : 5789786

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0812444 : 02640624

Received **Tested** 

: 10 Jun 2024 : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Kevin Marson Test Package : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

MISSISSAUGA, ON Contact: Nick Specic nicolas.specic@mississauga.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

F: (905)615-4523 Validity of results and interpretation are based on the sample and information as supplied.

**CITY OF MISSISSAUGA FIRE DEPT** 

7535 NINTH LINE

T: (905)615-3753

CA L5N 7C3