

OIL ANALYSIS REPORT

Oil Age

Fuel

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Boron

Barium

Zinc

Sulfur

Lithium

Silicon

Sodium

Firewater V411201A FWP PACKAGE A

Component **Diesel Engine**

MOBIL DELVAC MX EXTRA 0W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

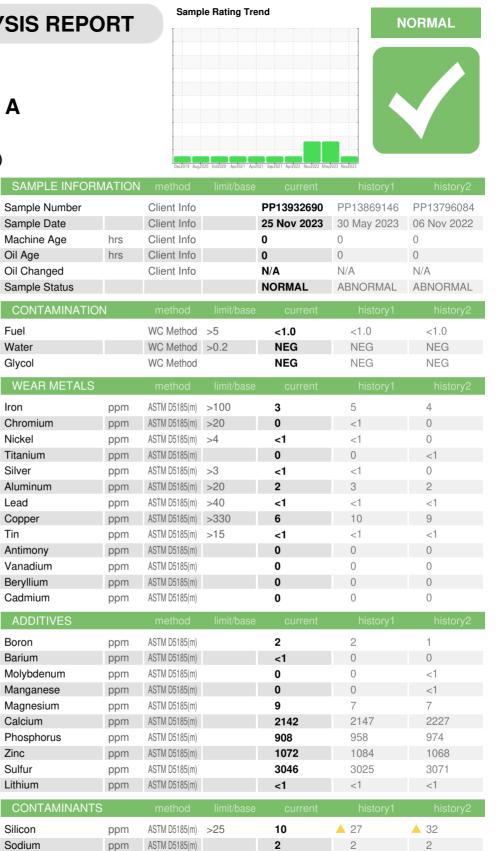
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The condition of the oil is acceptable for the time in service.

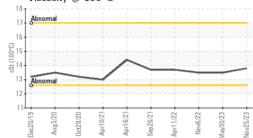


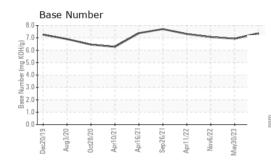
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.3	6.0	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.3	16.5	16.7



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Viscosity @ 100°C





FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D7414* ASTM D2896*	>25	13.2 7.35	13.7 6.93	13.4 7.06
VISUAL		method	limit/base	current	history1	history2
Emulsified Water		1.00 1.4	0.0			
Free Water	scalar scalar	Visual* Visual*	>0.2	NEG NEG	NEG NEG	NEG NEG
	scalar	rio didi	>0.2 limit/base			

GRAPHS Ferrous Alloys nicke Sep 26/21 unr16/7 nr11/75 0ct28/2 Anr10/5 Der 20/ Non-ferrous Metals 10 8 bpm 30/73 0ct28/20 r11/75 n76/7 lec20/ Viscosity @ 100°C 18 17 16 cSt (100°C) Abnor Nov25/23 -Apr16/21. Apr11/22 Aug3/20 0ct28/20 Sep 26/21 Vov6/22 Mav30/23

Apr10/21

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.

Received

Diagnosed

Diagnostician : Kevin Marson

Dec20/1

: PP13932690

: 02601384

To discuss this sample report, contact Customer Service at 1-800-268-2131.

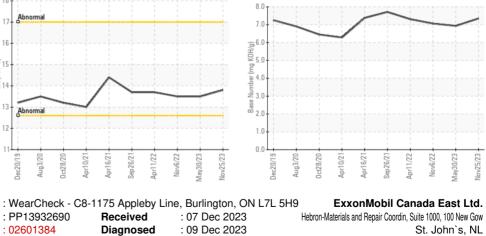
Laboratory

Sample No.

Lab Number

Unique Number : 5694469

Test Package : MAR 2



Base Number

St. John`s, NL CA A1C 6K3 Contact: Liam Maher liam.m.maher@exxonmobil.com T: (709)273-3729 F:



CALA

ISO 17025:2017 Accredited Laboratory

Contact/Location: Liam Maher - EXXSTJ