



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**PRAIRIE LAND**  
Component  
**Port Main Engine**  
Fluid  
**PETRO CANADA DURON MARINE SAE 40 (19 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MWM667158</b>	MWM667180	MWM667124
Sample Date		Client Info		<b>29 Nov 2023</b>	02 Oct 2023	17 Aug 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>900</b>	600	700
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>14</b>	23	23
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>18	<b>3</b>	0	1
Copper	ppm	ASTM D5185m	>80	<b>1</b>	<1	3
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

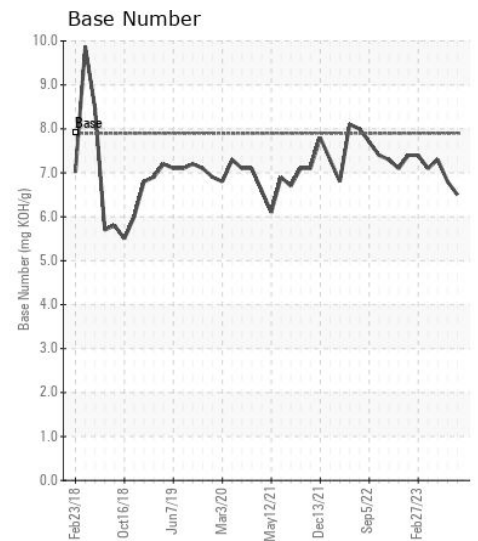
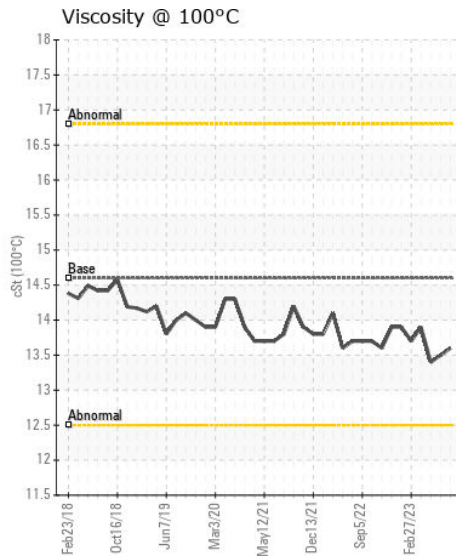
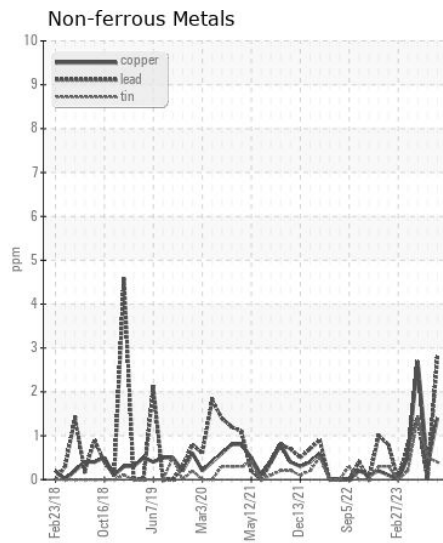
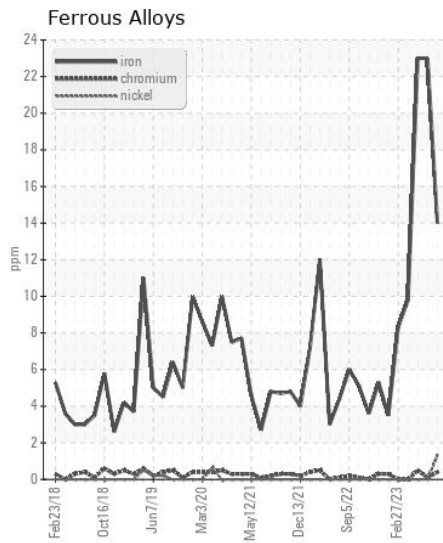
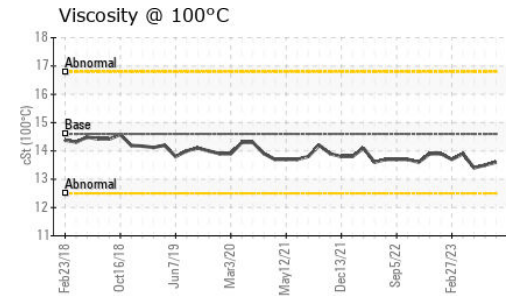
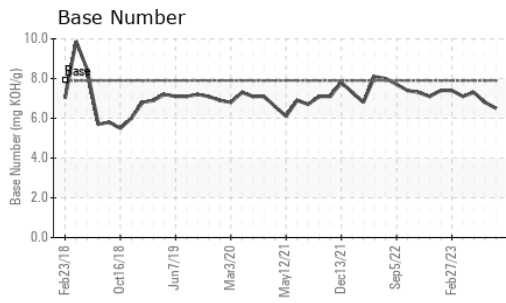
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	3	9
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.3</b>	4.5	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>14.9</b>	13.5	13.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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	>75	<b>&lt;1</b>	1	6
Boron	ppm	ASTM D5185m	1.0	<b>1</b>	11	9
Barium	ppm	ASTM D5185m	1.0	<b>0</b>	1	4
Molybdenum	ppm	ASTM D5185m	1.0	<b>3</b>	2	6
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	15	<b>895</b>	862	929
Calcium	ppm	ASTM D5185m	2540	<b>1056</b>	1003	1114
Phosphorus	ppm	ASTM D5185m	1000	<b>1073</b>	1098	1123
Zinc	ppm	ASTM D5185m	1110	<b>1365</b>	1248	1340
Sulfur	ppm	ASTM D5185m	3700	<b>3220</b>	2979	3136
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.1</b>	7.8	8.3
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	<b>6.5</b>	6.8	7.3
Visc @ 100°C	cSt	ASTM D445	14.6	<b>13.6</b>	13.5	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MWM667158 **Received** : 12 Jan 2024  
**Lab Number** : 06059078 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10830460 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2

**AMERICAN RIVER TRANS. CO. PEORIA**  
 534 WESLEY RD  
 CREVECOEUR, IL  
 US 61610  
 Contact: STEVE BUCCO

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)

T: (309)360-3931  
 F: (309)694-7030