



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

Machine Id  
**PRS**  
Component  
**Starboard Reduction Gear**  
Fluid  
**PETRO CANADA DURON MARINE SAE 40 (28 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW06017503</b>	MW05863164	MW05824225
Sample Date		Client Info		<b>23 Nov 2023</b>	01 Jun 2023	18 Apr 2023
Machine Age	hrs	Client Info		<b>30321</b>	29389	28186
Oil Age	hrs	Client Info		<b>507</b>	1203	1200
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>5</b>	4	7
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

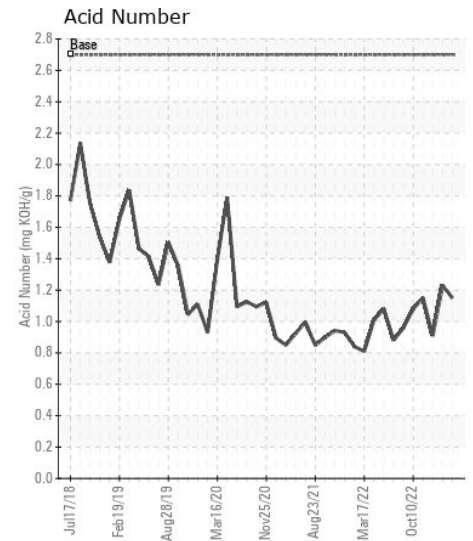
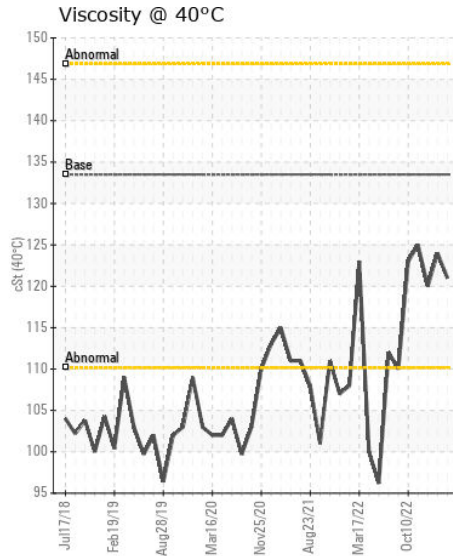
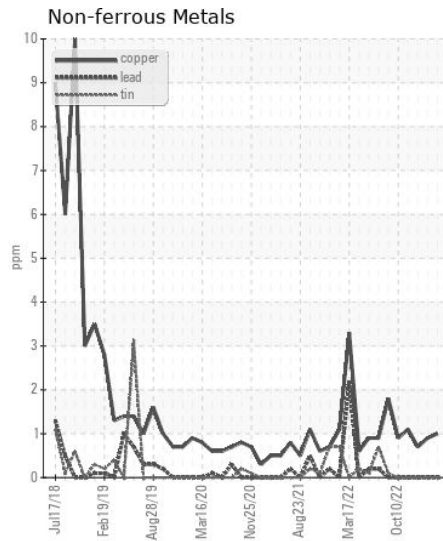
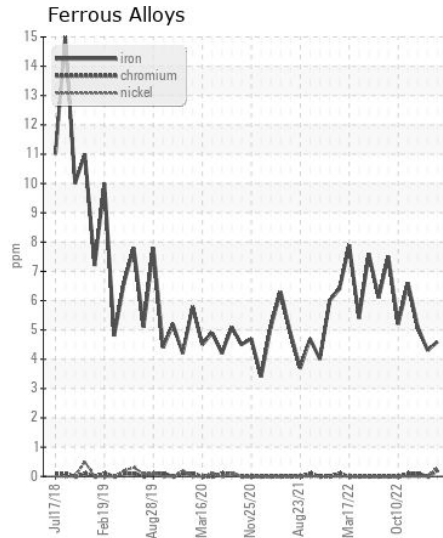
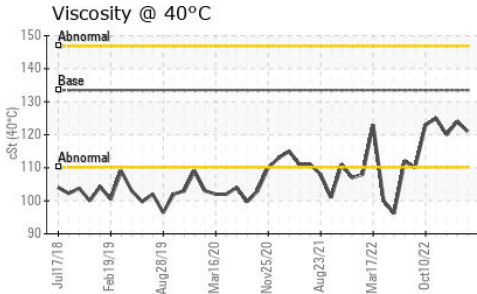
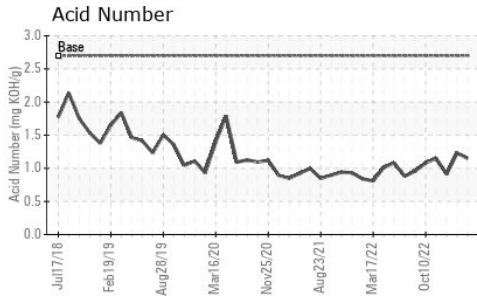
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	3
Boron	ppm	ASTM D5185m	1.0	<b>250</b>	360	290
Barium	ppm	ASTM D5185m	1.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1.0	<b>29</b>	37	37
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	15	<b>239</b>	73	101
Calcium	ppm	ASTM D5185m	2540	<b>2128</b>	2740	2192
Phosphorus	ppm	ASTM D5185m	1000	<b>735</b>	805	697
Zinc	ppm	ASTM D5185m	1110	<b>945</b>	925	795
Sulfur	ppm	ASTM D5185m	3700	<b>3605</b>	3656	3242
Acid Number (AN)	mg KOH/g	ASTM D8045	2.7	<b>1.15</b>	1.23	0.91
Visc @ 40°C	cSt	ASTM D445	133.5	<b>121</b>	124	120



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW06017503  
**Lab Number** : 06017503  
**Unique Number** : 10756647  
**Test Package** : MAR 2  
**Received** : 24 Nov 2023  
**Tested** : 28 Nov 2023  
**Diagnosed** : 29 Nov 2023 - Jonathan Hester

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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)