



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
Stbd Gearbox (S/N 2037609)
 Component
Starboard Gearbox
 Fluid
PETRO CANADA DURON MOTOR OIL SAE 40 (33 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0829985	WC0829976	WC0754144
Sample Date		Client Info		05 Jun 2024	15 Oct 2023	07 Jun 2023
Machine Age	hrs	Client Info		19912	19000	18000
Oil Age	hrs	Client Info		912	1000	1000
Filter Age	hrs	Client Info		912	1000	1000
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	2	2	3
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>65	0	<1	<1
Copper	ppm	ASTM D5185(m)	>80	<1	1	3
Tin	ppm	ASTM D5185(m)	>8	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

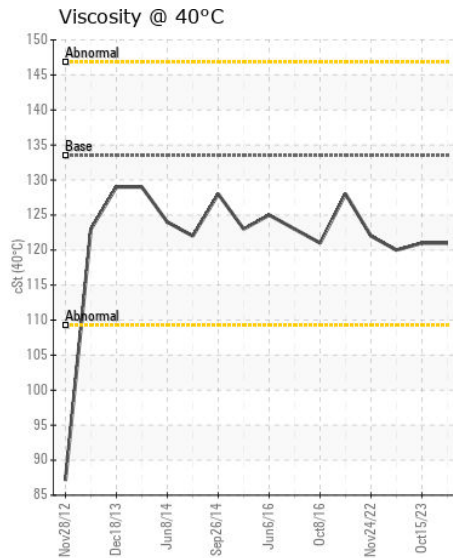
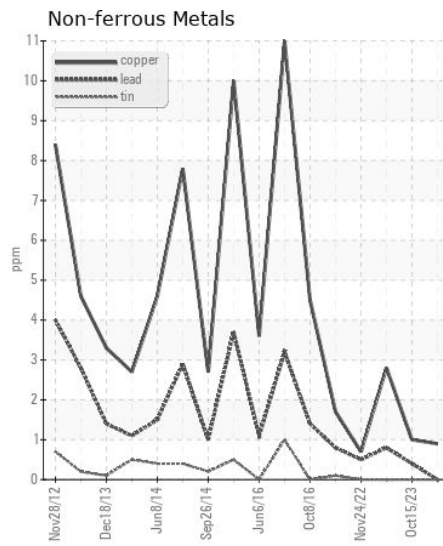
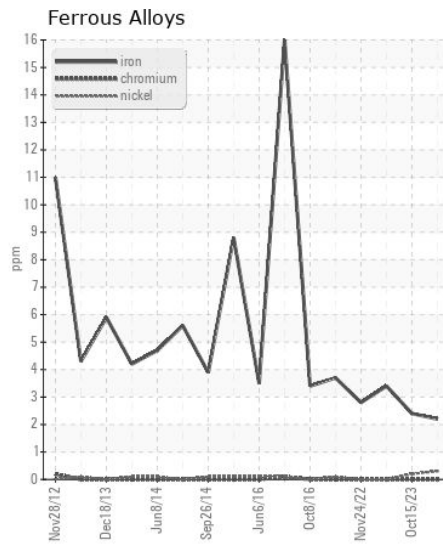
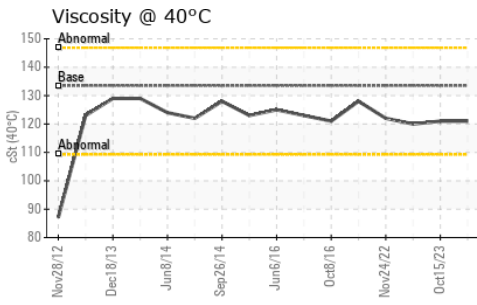
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	1	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	2	3
Boron	ppm	ASTM D5185(m)	1.0	3	7	31
Barium	ppm	ASTM D5185(m)	1.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	1.0	<1	<1	2
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	15	938	958	872
Calcium	ppm	ASTM D5185(m)	2540	1024	1080	1180
Phosphorus	ppm	ASTM D5185(m)	1000	1089	1127	1164
Zinc	ppm	ASTM D5185(m)	1110	1251	1299	1270
Sulfur	ppm	ASTM D5185(m)	3700	2769	2848	3278
Visc @ 40°C	cSt	ASTM D7279(m)	133.5	121	121	120



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0829985
Lab Number : 02643278
Unique Number : 5800817
Test Package : MAR 1

CANADIAN COAST GUARD
 CCGS Vladkov, P.O. Box 5667, 280 Southside Rd.
 St. John's, NL
 CA A1C 5X1
 Contact: Geoff Stewart
 geoffrey.stewart@dfo-mpo.gc.ca
 T: (709)772-4216
 F: (709)772-3652

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