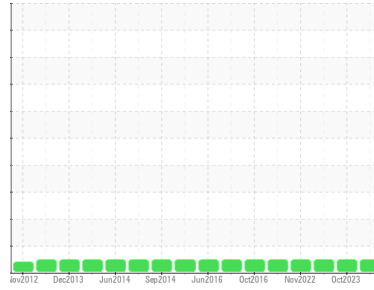




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

Stbd Gearbox (S/N 2037609)

Component

Starboard Gearbox

Fluid

PETRO CANADA DURON MOTOR OIL SAE 40 (33 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION

	method	limit/base	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
Oil Changed	Client Info		Not Chngd	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
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
Antimony	ppm	ASTM D5185(m) >5	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

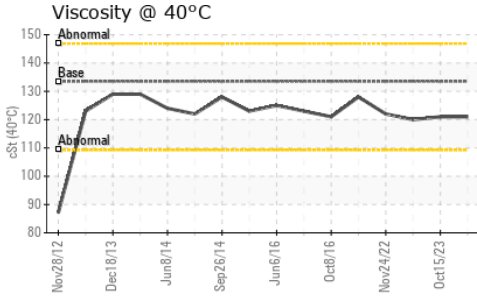
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 1.0	3	7	31
Barium	ppm	ASTM D5185(m) 1.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m) 1.0	<1	<1	2
Manganese	ppm	ASTM D5185(m) 1	0	0	0
Magnesium	ppm	ASTM D5185(m) 15	938	958	872
Calcium	ppm	ASTM D5185(m) 2540	1024	1080	1180
Phosphorus	ppm	ASTM D5185(m) 1000	1089	1127	1164
Zinc	ppm	ASTM D5185(m) 1110	1251	1299	1270
Sulfur	ppm	ASTM D5185(m) 3700	2769	2848	3278
Lithium	ppm	ASTM D5185(m)	1	1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	1	2	3
Sodium	ppm	ASTM D5185(m)	<1	2	3
Potassium	ppm	ASTM D5185(m) >20	<1	0	0



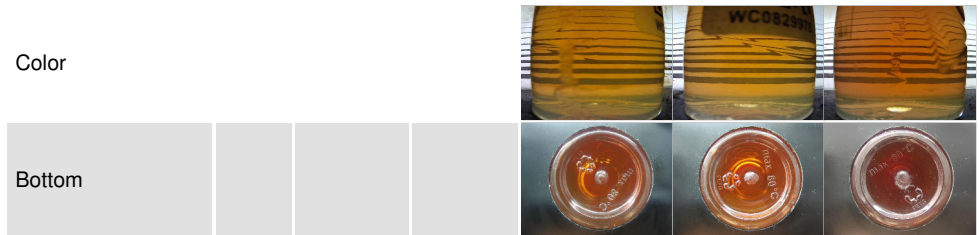
OIL ANALYSIS REPORT



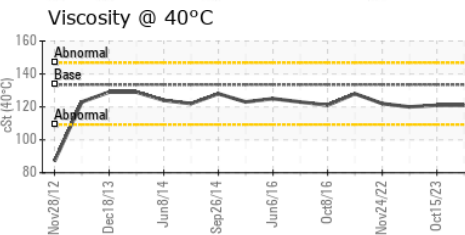
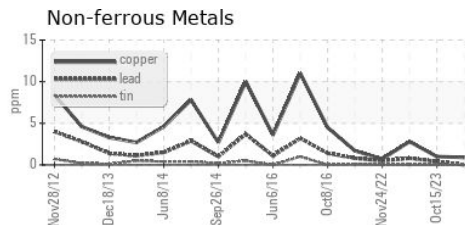
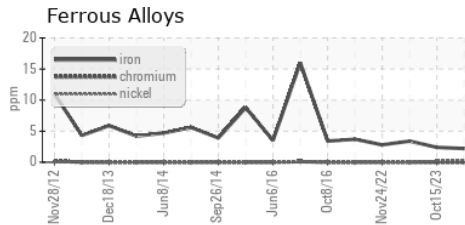
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	133.5	121	120

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0829985
Lab Number : 02643278
Unique Number : 5800817
Test Package : MAR 1
Received : 20 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

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.