

BULK AIR COMP (S/N BHS STBD)

Starboard Compressor

CASTROL AIRCOL SR 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

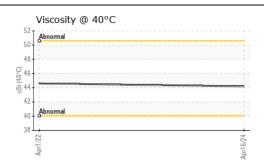
There is no indication of any contamination in the oil.

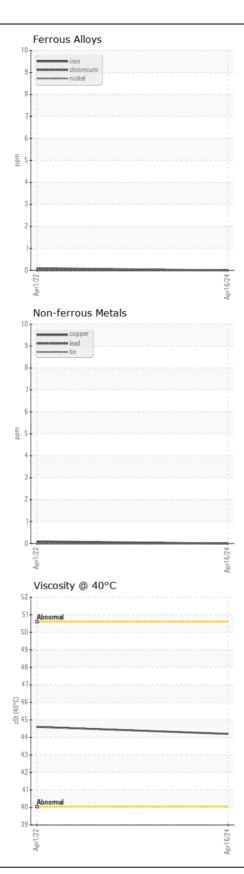
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0872092	WC0643495	
Sample Date		Client Info		16 Apr 2024	01 Apr 2022	
Machine Age	hrs	Client Info		80	90	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron			. 50	0	.4	
Chromium	ppm	ASTM D5185(m)	>50	0	<1 0	
	ppm	ASTM D5185(m)	>5	0	-	
Nickel	ppm	ASTM D5185(m)		0	<1	
Titanium Silver	ppm	ASTM D5185(m)		0	0	
	ppm	ASTM D5185(m)	45	0	0	
Aluminum	ppm	ASTM D5185(m)	>15	0	<1	
Lead	ppm	ASTM D5185(m)	>65	0	0	
Copper	ppm	ASTM D5185(m)	>65	0	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)	NONE	0	0	
White Metal	scalar	Visual*	NONE	NONE	LIGHT	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>35	0	<1	
Silicon Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>35 >20	0	<1 <1	
		()		-		
Potassium		ASTM D5185(m)	>20	0	<1	
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.1	0 NEG	<1 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.1 NONE	0 NEG NONE	<1 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.1 NONE NONE	0 NEG NONE NONE	<1 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE	0 NEG NONE NONE NONE	<1 NEG NONE NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE	0 NEG NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0	<1 NEG NONE NONE NORML NORML NEG <1 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0	<1 NEG NONE NONE NORML NORML NEG <1 <1 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 0 0	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 0 1 1	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 0 0 (0 0 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 (1 1 443	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 0 0 (0 0 2 375	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 0 0 1 1 443 32	<1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 0 0 0 <1 2 375 33	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 (1 1 443	<1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 0 0 (0 0 2 375	

Contact/Location: Horizon Arctic Chief Engineer - HORIZONARC





: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Horizon Maritime Services Ltd. - Horizon Arctic Received : 23 Apr 2024 87 WATER STREET,, 2ND FLOOR Tested : 23 Apr 2024 ST.JOHNS, NL Diagnosed : 23 Apr 2024 - Wes Davis CA A1C 1A5 Contact: Horizon Arctic Chief Engineer To discuss this sample report, contact Customer Service at 1-800-268-2131. chiefeng.arctic@horizonvessel.com T: (709)702-4447 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F:

Validity of results and interpretation are based on the sample and information as supplied.

Laboratory

Sample No.

Lab Number : 02630962

Unique Number : 5772115

Test Package : MAR 1

: WC0872092

CALA

ISO 17025:2017 Accredited Laboratory