

# **PROBLEM SUMMARY**

Sample Rating Trend

GLYCOL



# LAST RESORT

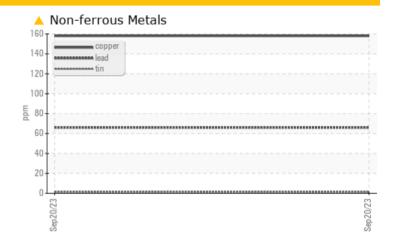
Component

**Starboard Transmission** 

**NOT GIVEN (8 LTR)** 

### COMPONENT CONDITION SUMMARY





#### **RECOMMENDATION**

We advise that you check for the source of the coolant leak. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL					
Lead	ppm	ASTM D5185(m)	>50	<b>△</b> 66					
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b> 5					
Glycol	%	ASTM D7922*		<b>△</b> 0.026					

Customer Id: KILNOB Sample No.: WC0864932 Lab Number: 02588951 Test Package: MAR 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the fluid from the component if this has not already been done.			
Flush System			?	We advise that you flush the component thoroughly before re-filling with fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

### HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



GLYCOL



**Starboard Transmission** 

LAST RESORT

NOT GIVEN (8 LTR)

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

Lead ppm levels are abnormal. Clutch disc wear indicated.

#### Contamination

Test for glycol is positive. There is a light concentration of glycol present in the fluid.

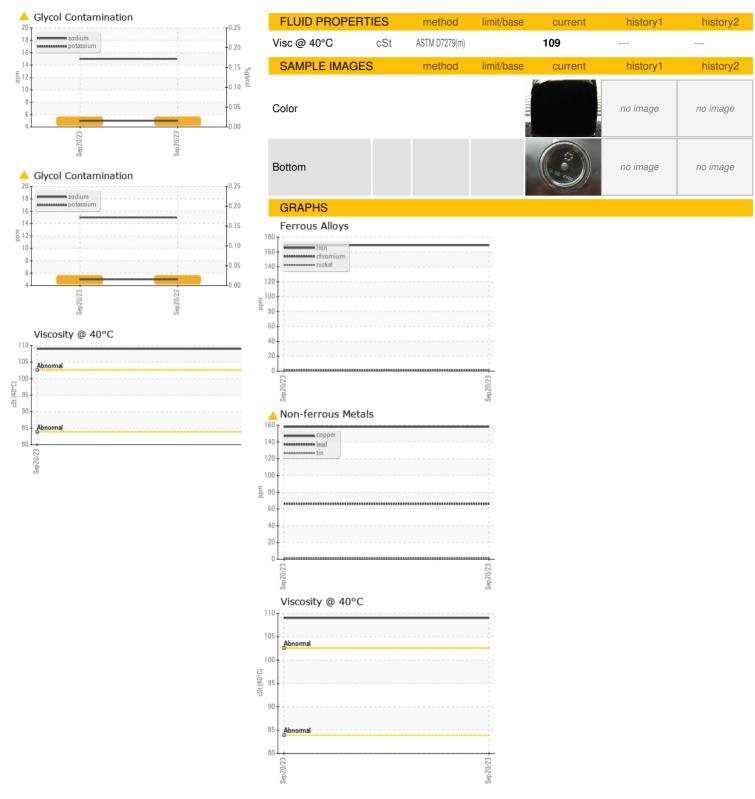
#### **Fluid Condition**

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

				Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864932		
Sample Date		Client Info		20 Sep 2023		
Machine Age	kms	Client Info		0		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	169		
Chromium	ppm	ASTM D5185(m)	>10	1		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>50	14		
Lead	ppm	ASTM D5185(m)	>50	<b>^</b> 66		
Copper	ppm	ASTM D5185(m)	>200	158		
Tin	ppm	ASTM D5185(m)	>10	1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		103		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		86		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		52		
Calcium	ppm	ASTM D5185(m)		2489		
Phosphorus	ppm	ASTM D5185(m)		1023		
Zinc	ppm	ASTM D5185(m)		1187		
Sulfur	ppm	ASTM D5185(m)		8252		
Lithium	ppm	ASTM D5185(m)		1		
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	7		
Sodium	ppm	ASTM D5185(m)		5		
Potassium	ppm	ASTM D5185(m)	>20	<u> 15</u>		
Glycol	%	ASTM D7922*		<b>△</b> 0.026		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Free Water	scalar	Visual*		NÊG	ocation: Walt W	acho <u>n</u> - KILNOB



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5658017

: WC0864932

: 02588951

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received

Diagnosed Diagnostician : Kevin Marson

: 13 Oct 2023 : 16 Oct 2023

Test Package : MAR 1 ( Additional Tests: Glycol ) 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.

Killbear Marina 31 Pengally Road Nobel, ON CA POG 1G0 Contact: Walt Wachon info@killbearmarina.ca T: (705)342-5203

Contact/Location: Walt Wachon - KILNOB