



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**HG68534**  
 Component  
**Steering**  
 Fluid  
**MOBIL UNIVIS N-C 22 (120 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 2 test kits, this testkit includes AN to determine the suitability of the fluid for continued use.

## WEAR

All component wear rates are normal.

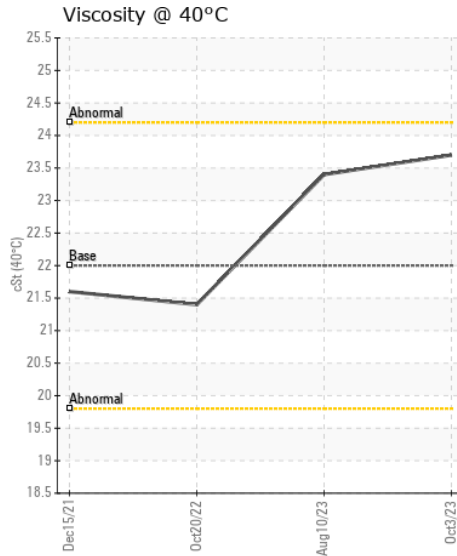
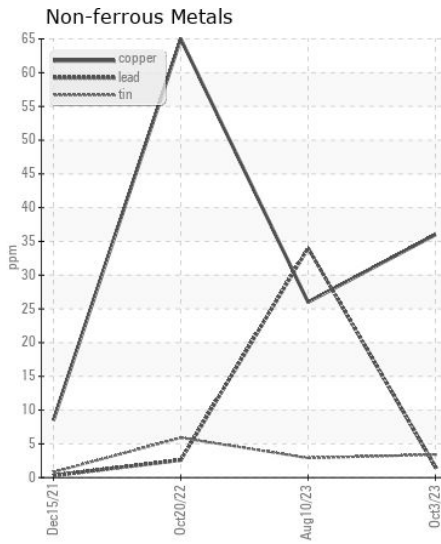
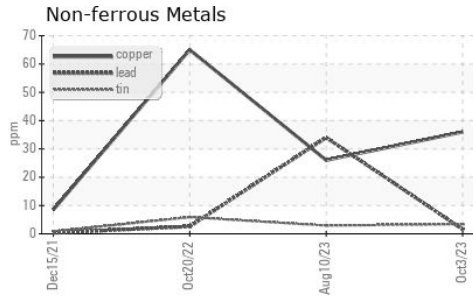
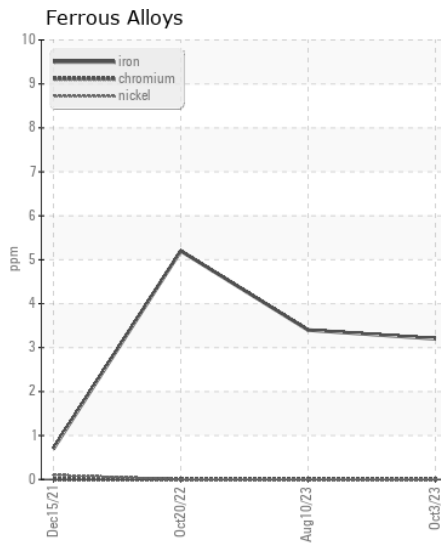
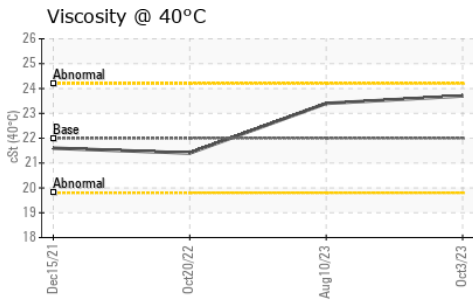
## CONTAMINATION

There is no indication of any contamination in the fluid.

## FLUID CONDITION

The condition of the fluid is acceptable for the time in service (unconfirmed).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0847741</b>	WC0646814	WC0703925
Sample Date		Client Info		<b>03 Oct 2023</b>	10 Aug 2023	20 Oct 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>None</b>	None	N/A
Sample Status				<b>NORMAL</b>	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185(m)	>60	<b>3</b>	3	5
Chromium	ppm	ASTM D5185(m)	>12	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m)	>12	<b>2</b>	▲ 34	3
Copper	ppm	ASTM D5185(m)	>30	<b>36</b>	26	▲ 65
Tin	ppm	ASTM D5185(m)		<b>3</b>	3	▲ 6
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	▲ VLITE	NONE
Silicon	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Water		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</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*		<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)		<b>51</b>	51	50
Phosphorus	ppm	ASTM D5185(m)		<b>333</b>	358	352
Zinc	ppm	ASTM D5185(m)		<b>424</b>	425	406
Sulfur	ppm	ASTM D5185(m)		<b>2845</b>	2893	2271
Visc @ 40°C	cSt	ASTM D7279(m)	22	<b>23.7</b>	23.4	21.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Horizon Maritime Services Ltd. - Polar Prince**  
**Sample No.** : WC0847741 **Received** : 17 Oct 2023 422 Main Street  
**Lab Number** : 02589779 **Tested** : 17 Oct 2023 Mulgrave, NS  
**Unique Number** : 5658845 **Diagnosed** : 18 Oct 2023 - Kevin Marson CA B0E 2G0  
**Test Package** : MAR 1 **Contact**: Chief Engineer

To discuss this sample report, contact Customer Service at 1-800-268-2131. chiefeng.polarprince@miawpukekhhorizon.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:  
 Validity of results and interpretation are based on the sample and information as supplied. F: