



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ME1 DE ALT BEARING
Component
Drive End Bearing
Fluid
CASTROL PERFECTO T 68 (21 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0773481	WC0773477	WC0713719
Sample Date		Client Info		15 Apr 2024	06 Oct 2023	29 Jun 2022
Machine Age	hrs	Client Info		11130	10194	9060
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	0	5	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Lead	ppm	ASTM D5185(m)	>20	0	<1	2
Copper	ppm	ASTM D5185(m)	>20	<1	<1	1
Tin	ppm	ASTM D5185(m)	>20	2	3	5
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

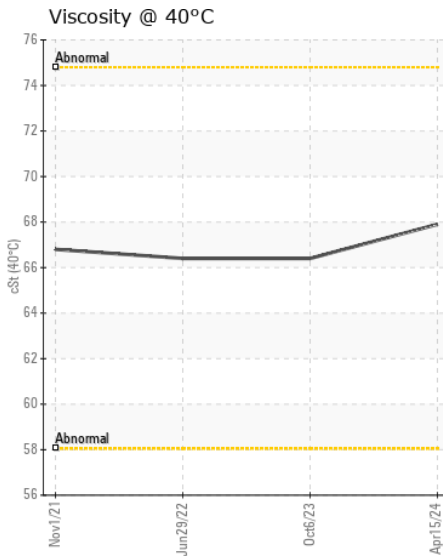
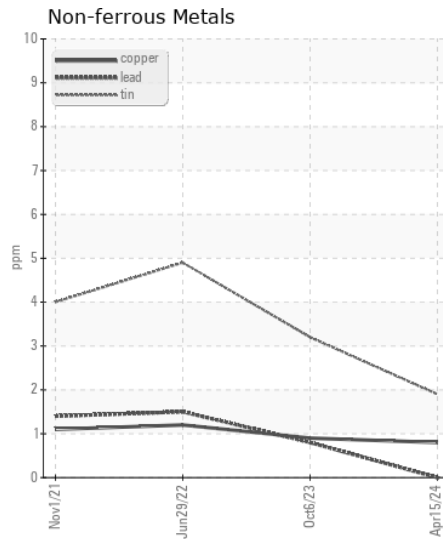
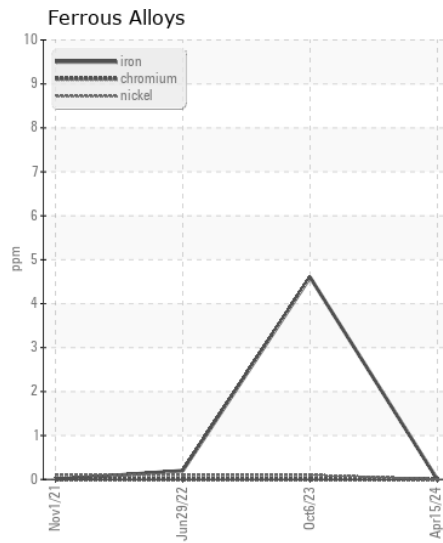
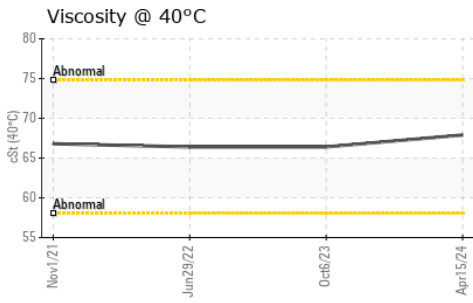
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	0	<1	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)		0	<1	0
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	<1
Calcium	ppm	ASTM D5185(m)		<1	1	3
Phosphorus	ppm	ASTM D5185(m)		4	2	3
Zinc	ppm	ASTM D5185(m)		2	2	4
Sulfur	ppm	ASTM D5185(m)		1058	1366	3102
Visc @ 40°C	cSt	ASTM D7279(m)		67.9	66.4	66.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0773481
Lab Number : 02630963
Unique Number : 5772116
Test Package : MAR 1

Horizon Maritime Services Ltd. - Horizon Arctic
 87 WATER STREET,, 2ND FLOOR
 ST.JOHN'S, NL
 CA A1C 1A5
 Contact: Horizon Arctic Chief Engineer
 chiefeng.arctic@horizonvessel.com

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.

T: (709)702-4447
 F: