



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FWD AIR COMPRESSOR #1
 Component
Air Compressor
 Fluid
MOBIL DTE OIL HVY MEDIUM (7 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0847736	WC0646813	WC0703942
Sample Date		Client Info		25 Sep 2023	05 Aug 2023	20 Oct 2022
Machine Age	hrs	Client Info		1800	0	1282
Oil Age	hrs	Client Info		200	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	24	● 34	6
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>40	2	2	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	▲ VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

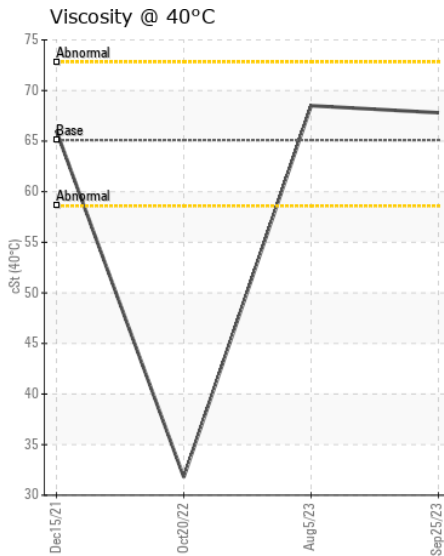
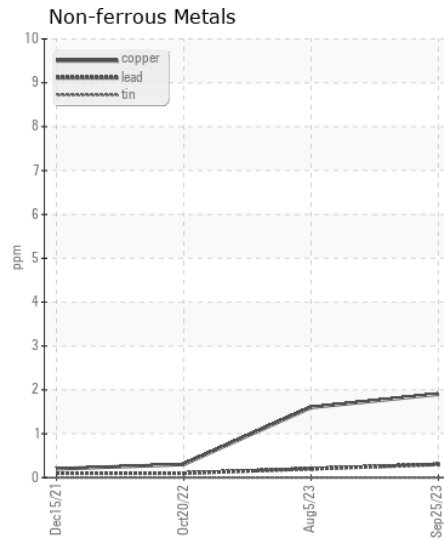
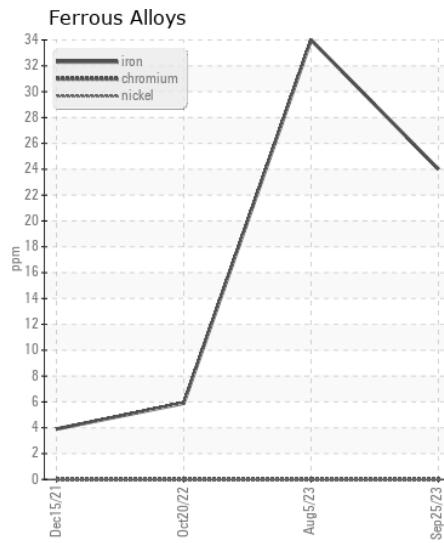
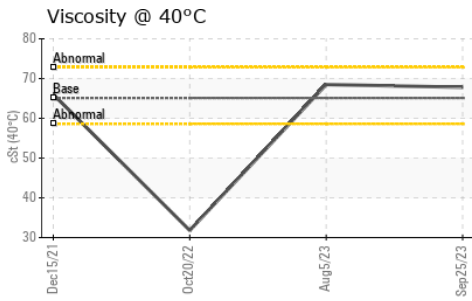
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	3	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water		WC Method	>0.6	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	▲ MODER	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*	>0.6	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	0
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		0	<1	0
Calcium	ppm	ASTM D5185(m)		<1	3	36
Phosphorus	ppm	ASTM D5185(m)		127	138	295
Zinc	ppm	ASTM D5185(m)		79	80	313
Sulfur	ppm	ASTM D5185(m)		964	561	2374
Visc @ 40°C	cSt	ASTM D7279(m)	65.1	67.8	68.5	▲ 31.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Horizon Maritime Services Ltd. - Polar Prince**
Sample No. : WC0847736 **Received** : 17 Oct 2023 422 Main Street
Lab Number : 02589637 **Tested** : 17 Oct 2023 Mulgrave, NS
Unique Number : 5658703 **Diagnosed** : 17 Oct 2023 - Wes Davis 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@miawpukekhorizon.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: