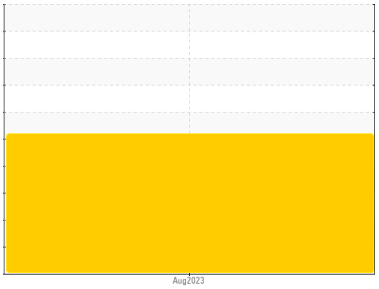
PROBLEM SUMMARY

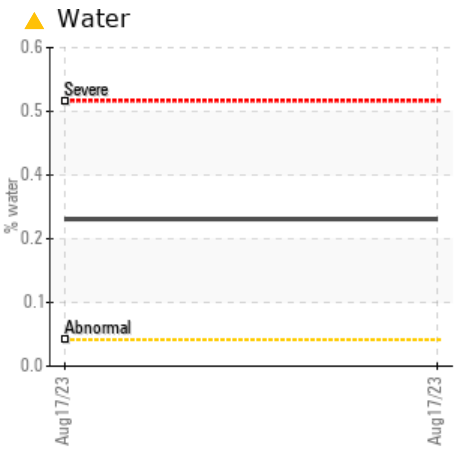
Sample Rating Trend

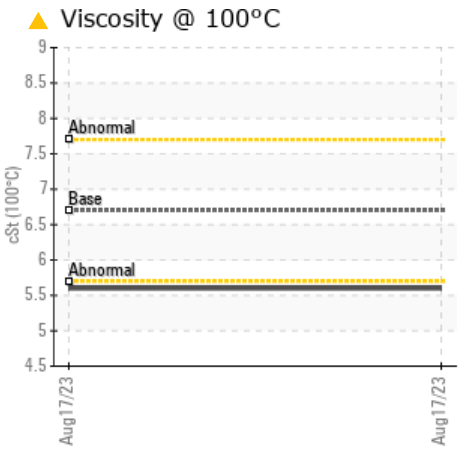


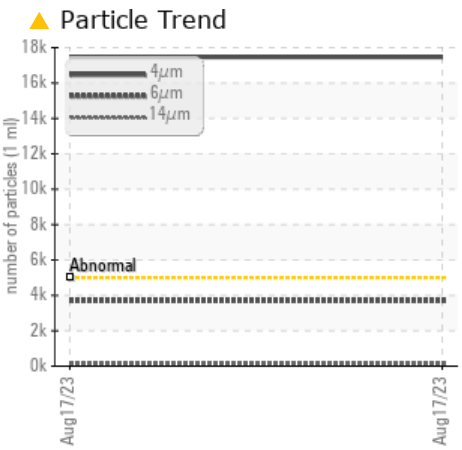
WATER

Area
Woodbridge Foam - W04100
Machine Id
AM888
Component
Hydraulic System
Fluid
MONARCH PREMIUM HYDRAULIC OIL AW R&O 46 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Water	%	ASTM D6304*	>0.05	▲ **0.277**	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ **2772.9**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **17470**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **3698**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/19/14**	---	---
Free Water	scalar	Visual*		▲ **5%**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	▲ **5.6**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	100	▲ **46**	---	---

Customer Id: CHECOB
Sample No.: E30000150
Lab Number: 02578088
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Tatiana Sorkina +1 (800)263-3939
tsorkina@e360s.ca

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

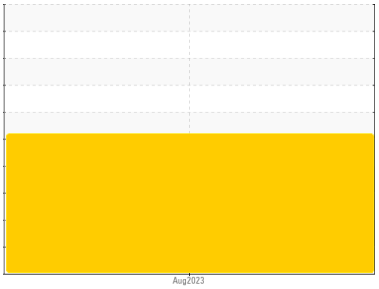
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
Woodbridge Foam - W04100
Machine Id
AM888
Component
Hydraulic System
Fluid
MONARCH PREMIUM HYDRAULIC OIL AW R&O 46 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

{not applicable}

Contamination

ppm Water and water contamination levels are abnormal. Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.

Fluid Condition

Visc @ 100°C is abnormally low. Viscosity Index (VI) is abnormally low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**E30000150**	---	---
Sample Date		Client Info		**17 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	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)	>20	**<1**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>20	**1**	---	---
Copper	ppm	ASTM D5185(m)	>20	**1**	---	---
Tin	ppm	ASTM D5185(m)	>20	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

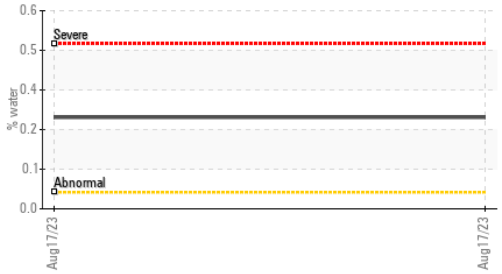
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	---	---
Barium	ppm	ASTM D5185(m)		**0**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**<1**	---	---
Calcium	ppm	ASTM D5185(m)		**60**	---	---
Phosphorus	ppm	ASTM D5185(m)		**358**	---	---
Zinc	ppm	ASTM D5185(m)		**433**	---	---
Sulfur	ppm	ASTM D5185(m)		**799**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**<1**	---	---
Sodium	ppm	ASTM D5185(m)		**0**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.05	▲ **0.277**	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ **2772.9**	---	---

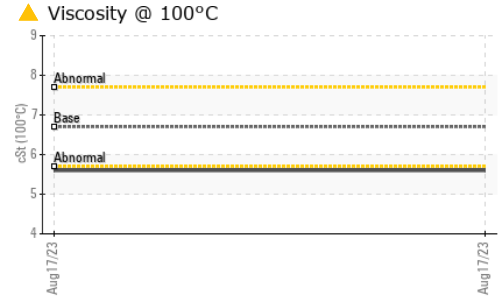
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **17470**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **3698**	---	---
Particles >14µm		ASTM D7647	>160	**132**	---	---
Particles >21µm		ASTM D7647	>40	**23**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/19/14**	---	---

OIL ANALYSIS REPORT

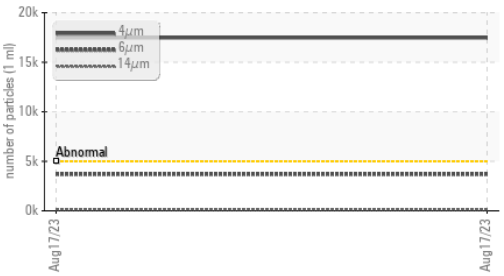
Water



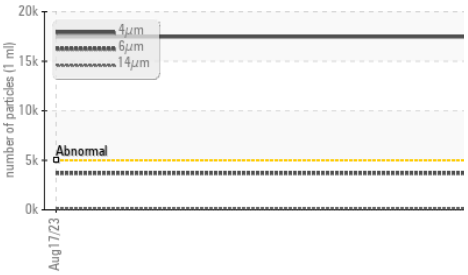
Viscosity @ 100°C



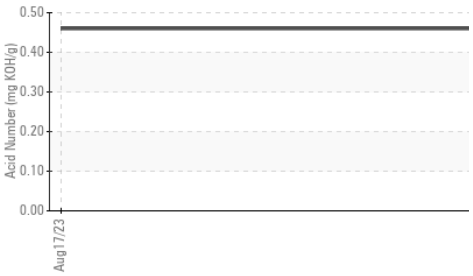
Particle Trend



Particle Trend



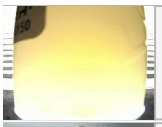
Acid Number



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.46**	---	---

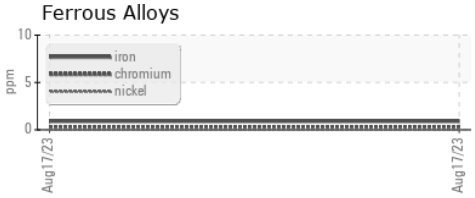
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**VLITE**	---	---
Debris	scalar	Visual*	NONE	**VLITE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**LAYRD**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.05	**.2%**	---	---
Free Water	scalar	Visual*		▲ **5%**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	45.7	**43.2**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	▲ **5.6**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	100	▲ **46**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

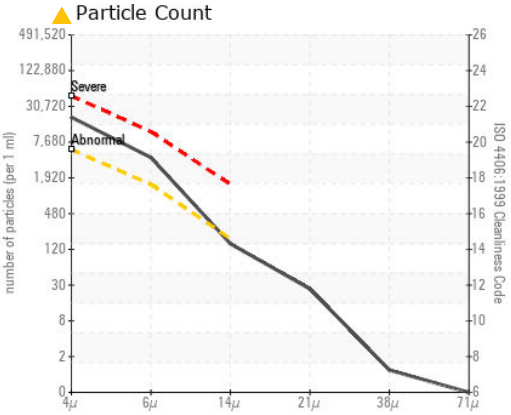
Ferrous Alloys



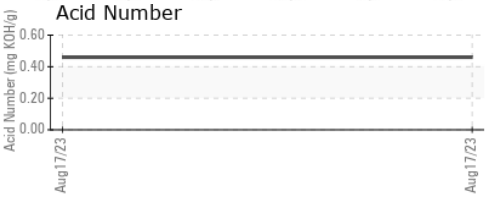
Non-ferrous Metals

Viscosity @ 40°C

Particle Count



Acid Number



CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000150 **Received** : 24 Aug 2023
Lab Number : 02578088 **Diagnosed** : 28 Aug 2023
Unique Number : 5631148 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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.

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