



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
ITALAPRESSE

Component
Hydraulic System

Fluid
MONARCH PREMIUM HYDRAULIC OIL AW R&O 46 (200 LTR)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0647427	WC0647430	---
Sample Date		Client Info		09 Jun 2024	29 Jun 2023	---
Machine Age	yrs	Client Info		20	20	---
Oil Age	yrs	Client Info		0	2	---
Filter Age	yrs	Client Info		0	1	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	1	<1	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>20	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	---
Lead	ppm	ASTM D5185(m)	>20	0	0	---
Copper	ppm	ASTM D5185(m)	>20	<1	<1	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

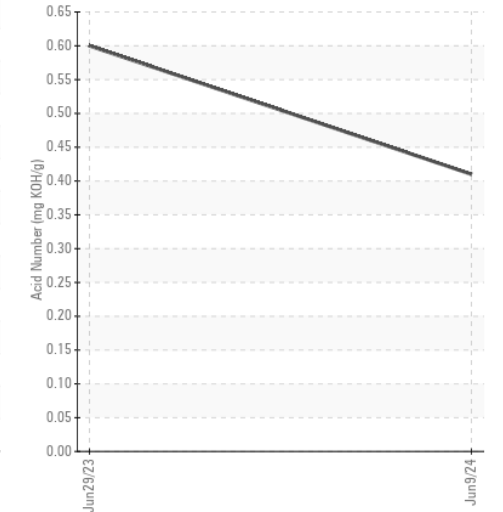
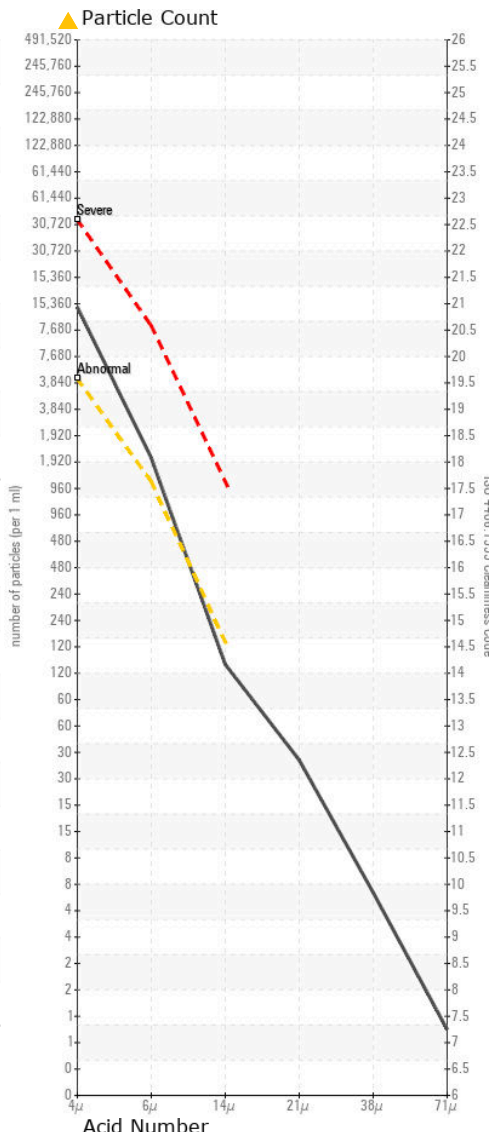
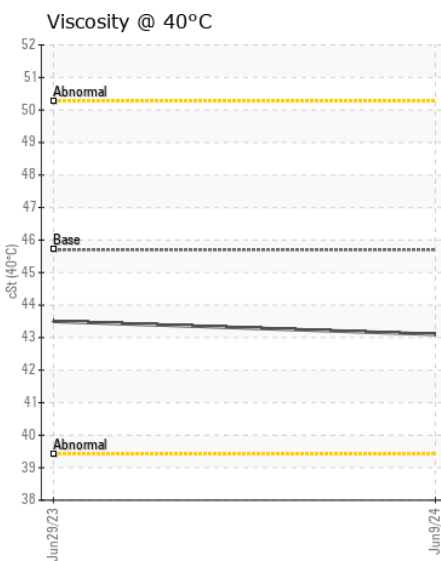
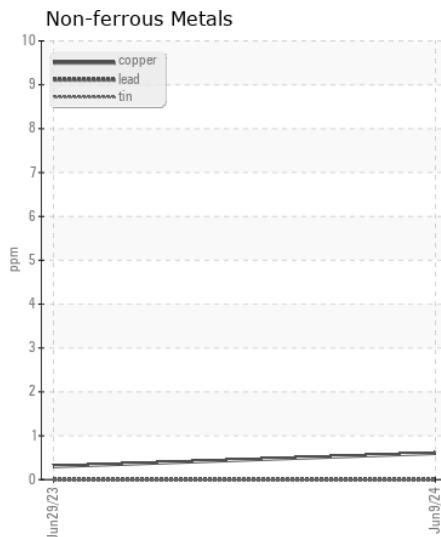
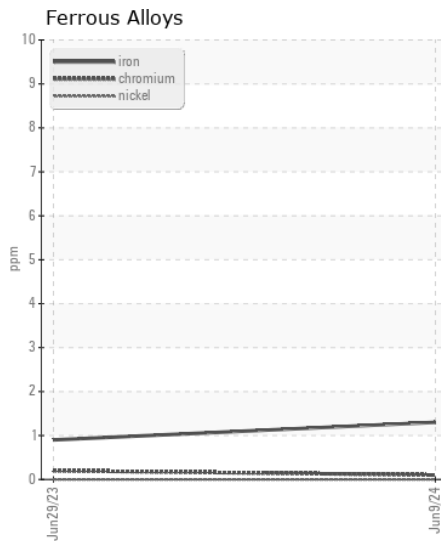
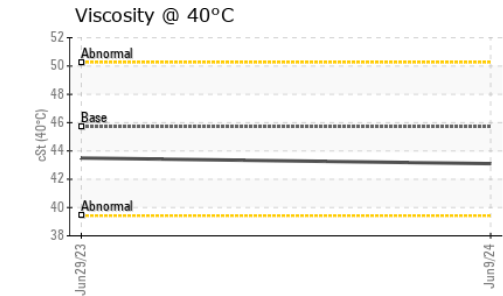
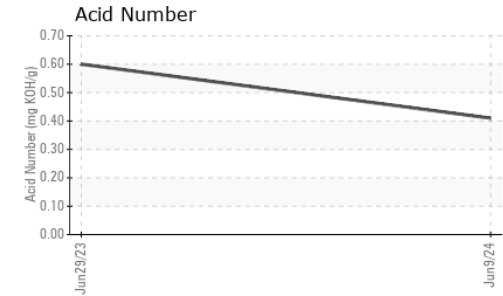
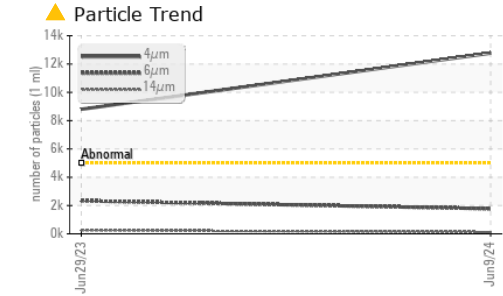
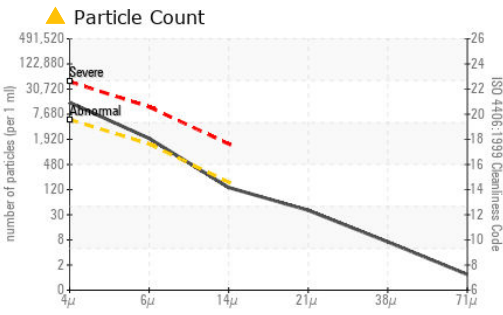
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	0	0	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.05	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	12767	8803	---
Particles >6µm		ASTM D7647	>1300	1772	2334	---
Particles >14µm		ASTM D7647	>160	119	247	---
Particles >21µm		ASTM D7647	>40	34	70	---
Particles >38µm		ASTM D7647	>10	6	2	---
Particles >71µm		ASTM D7647	>3	1	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/18/14	20/18/15	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		1	<1	---
Boron	ppm	ASTM D5185(m)		3	4	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		1	3	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		11	14	---
Calcium	ppm	ASTM D5185(m)		171	197	---
Phosphorus	ppm	ASTM D5185(m)		362	393	---
Zinc	ppm	ASTM D5185(m)		459	465	---
Sulfur	ppm	ASTM D5185(m)		950	1008	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.41	0.60	---
Visc @ 40°C	cSt	ASTM D7279(m)	45.7	43.1	43.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0647427 **Received** : 10 Jun 2024
Lab Number : 02640767 **Tested** : 11 Jun 2024
Unique Number : 5789929 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : IND 2

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.

CPI AUTOMATION
 62 MCBRINE PL #17
 KITCHENER, ON
 CA N2R 1H3
 Contact: Rob Frank
 rob@cpiautomation.com
 T: (519)748-0600
 F: (519)748-2212