



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**AP 5**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 22 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0030115	---	---
Sample Date		Client Info		09 May 2024	---	---
Machine Age	wks	Client Info		3	---	---
Oil Age	wks	Client Info		3	---	---
Filter Age	wks	Client Info		1	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	1	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	0	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>75	<1	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

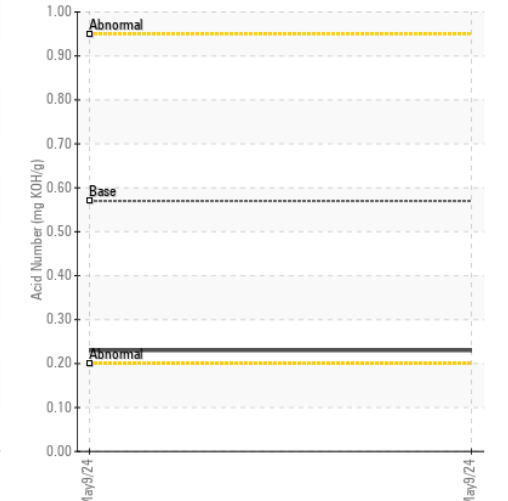
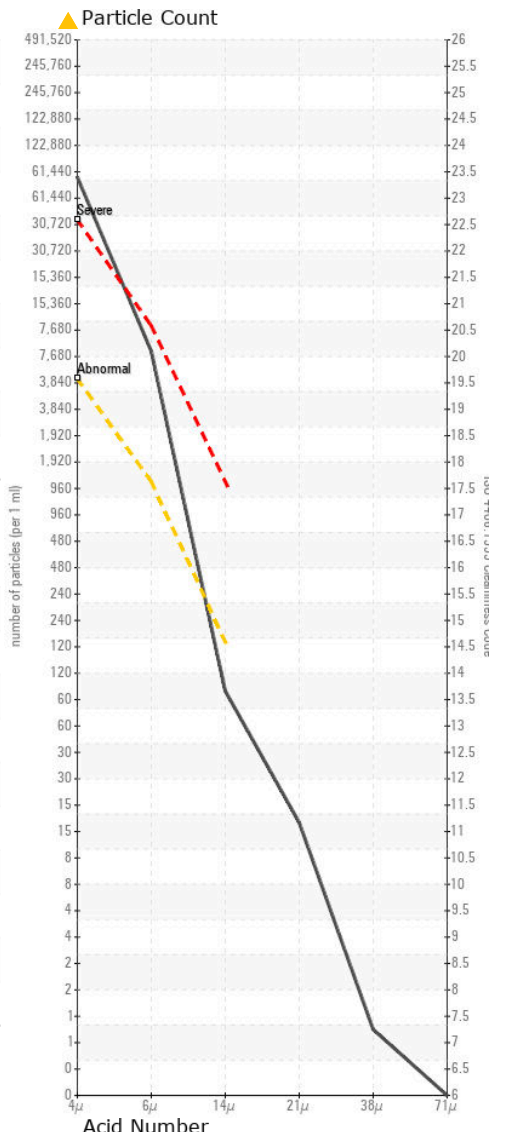
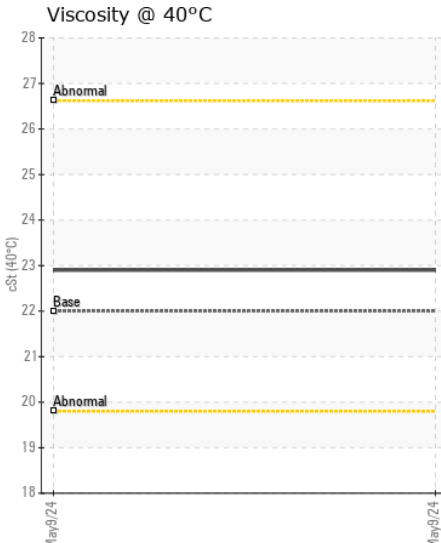
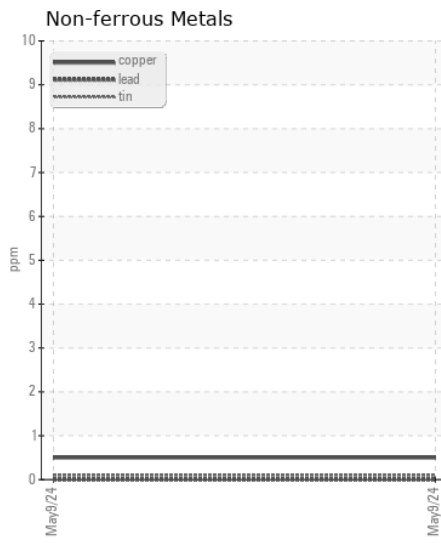
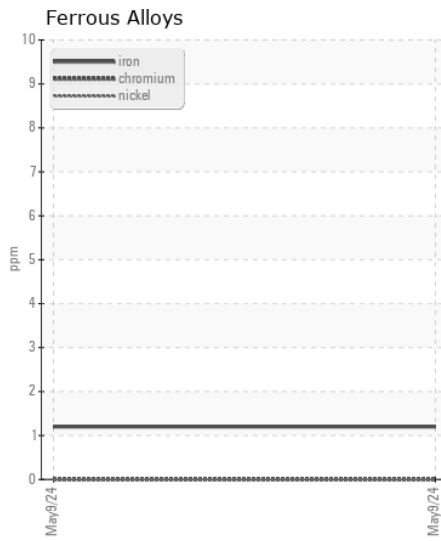
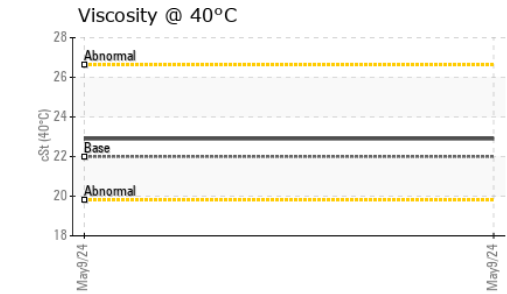
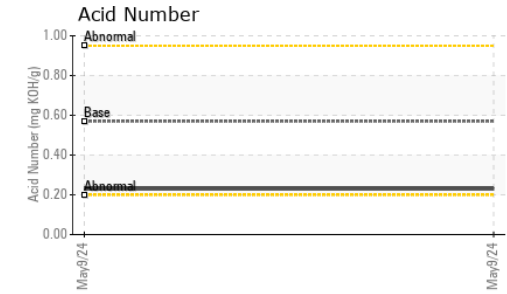
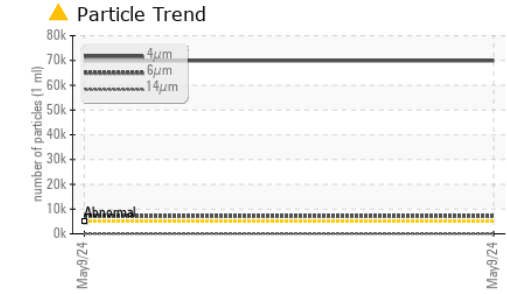
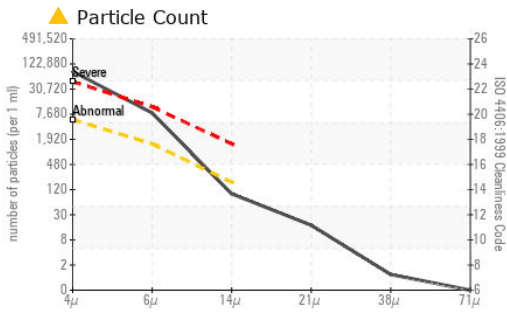
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	1	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 69906	---	---
Particles >6µm		ASTM D7647	>1300	▲ 7157	---	---
Particles >14µm		ASTM D7647	>160	84	---	---
Particles >21µm		ASTM D7647	>40	15	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/20/14	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m	5	0	---	---
Barium	ppm	ASTM D5185m	5	<1	---	---
Molybdenum	ppm	ASTM D5185m	5	0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	25	0	---	---
Calcium	ppm	ASTM D5185m	200	60	---	---
Phosphorus	ppm	ASTM D5185m	300	198	---	---
Zinc	ppm	ASTM D5185m	370	218	---	---
Sulfur	ppm	ASTM D5185m	2500	648	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.23	---	---
Visc @ 40°C	cSt	ASTM D445	22	22.9	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0030115 **Received** : 22 May 2024  
**Lab Number** : 06187610 **Tested** : 23 May 2024  
**Unique Number** : 11044362 **Diagnosed** : 23 May 2024 - Angela Borella  
**Test Package** : MOB 2

**TURNER HYDRAULICS**  
 1605 INDUSTRIAL DR  
 CARLISLE, PA  
 US 17013  
 Contact: SANDY CORNMAN  
 scornman@turnerhydraulics.com  
 T: (717)243-3329  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)