



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**AMERICAN FP DUFFY**  
 Component  
**Hydraulic System**  
 Fluid  
**AW 36 (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0027359	---	---
Sample Date		Client Info		26 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	3	---	---
Chromium	ppm	ASTM D5185m	>10	1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	10	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

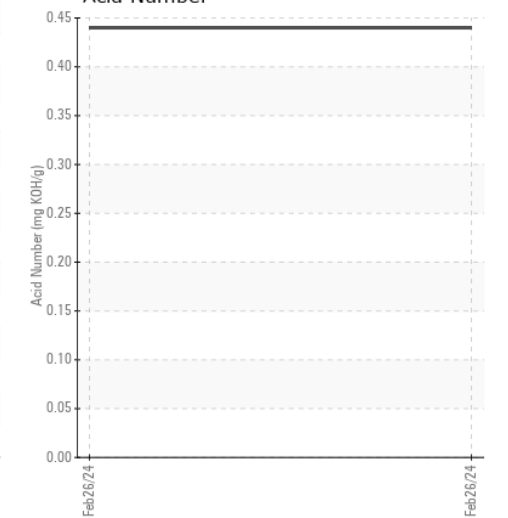
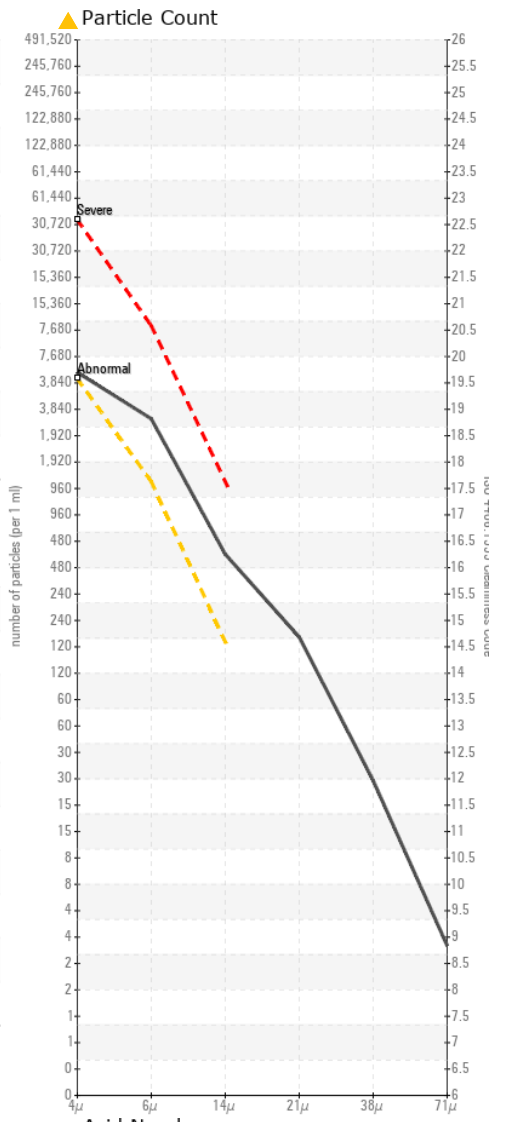
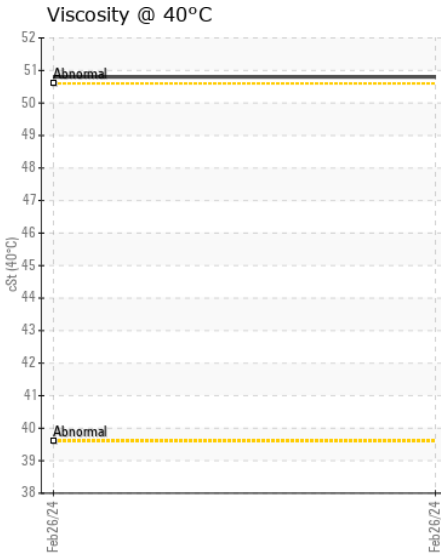
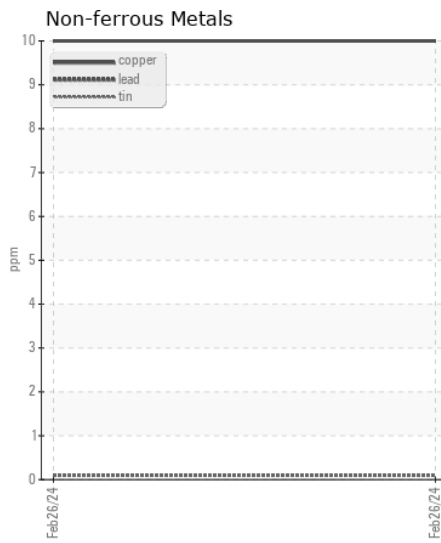
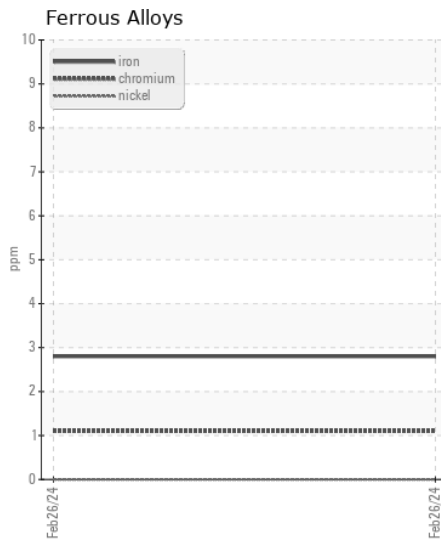
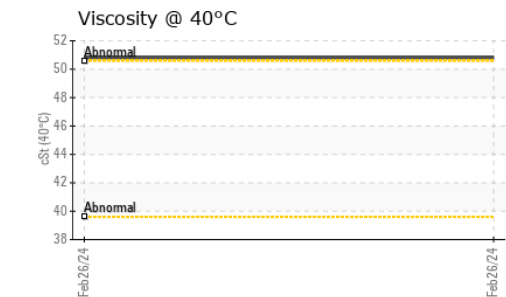
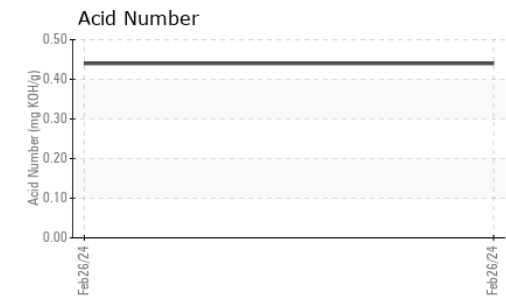
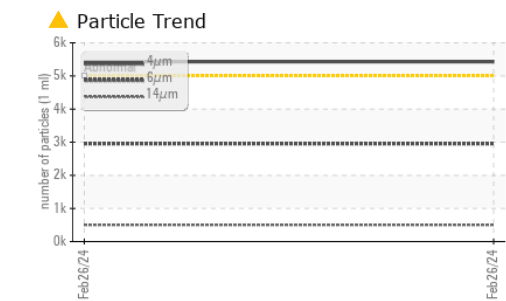
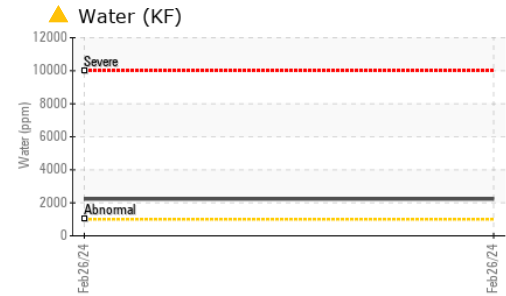
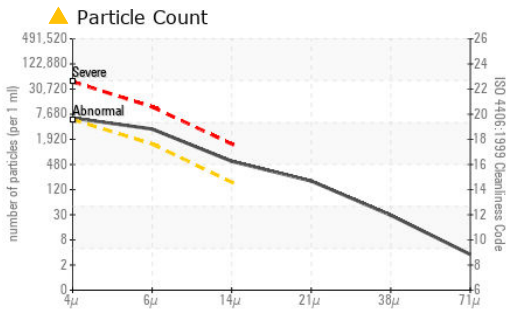
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	0	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.1	▲ 0.223	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2230	---	---
Particles >4µm		ASTM D7647	>5000	▲ 5429	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2957	---	---
Particles >14µm		ASTM D7647	>160	▲ 503	---	---
Particles >21µm		ASTM D7647	>40	▲ 170	---	---
Particles >38µm		ASTM D7647	>10	▲ 26	---	---
Particles >71µm		ASTM D7647	>3	▲ 3	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/19/16	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		47	---	---
Calcium	ppm	ASTM D5185m		95	---	---
Phosphorus	ppm	ASTM D5185m		360	---	---
Zinc	ppm	ASTM D5185m		424	---	---
Sulfur	ppm	ASTM D5185m		6471	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	---	---
Visc @ 40°C	cSt	ASTM D445		50.8	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0027359 **Received** : 10 Apr 2024  
**Lab Number** : 06145269 **Tested** : 16 Apr 2024  
**Unique Number** : 10970077 **Diagnosed** : 16 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF )

**ENVIRONMENTAL RECYCLING SVCS INC**  
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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)