

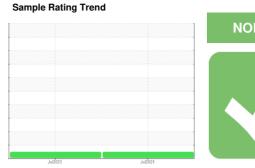
## **OIL ANALYSIS REPORT**

Area

# Huntington [Huntington] Hydraulic - Auxiliary

Hydraulic System

**AW HYDRAULIC OIL ISO 46 (--- GAL)** 





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

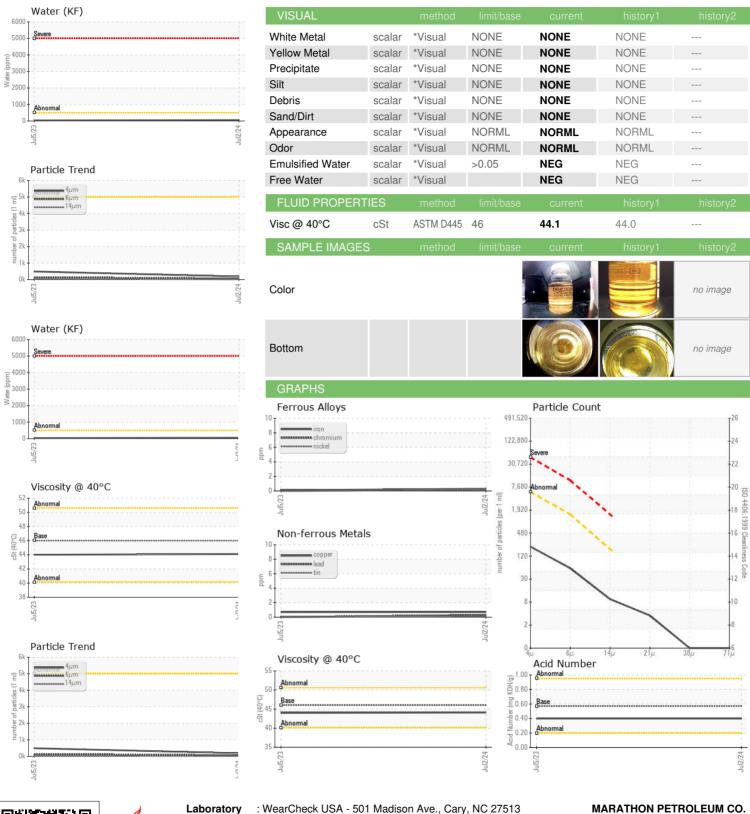
#### **Fluid Condition**

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

			Jul2023	Jul2024		
CAMPLE INFORM	AATIONI	and the set	12		la ta La conse	h'atan O
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898306	WC0769300	
Sample Date		Client Info		02 Jul 2024	05 Jul 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	2	0	
Lead	ppm	ASTM D5185m	>20	<1	0	
Copper	ppm	ASTM D5185m	>20	<1	<1	
Tin	ppm	ASTM D5185m	>20	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	<1	<1	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	1	0	
Calcium	ppm	ASTM D5185m	200	22	40	
Phosphorus	ppm	ASTM D5185m	300	279	309	
Zinc	ppm	ASTM D5185m	370	360	379	
Sulfur	ppm	ASTM D5185m	2500	741	1002	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	0.005	0.003	
ppm Water	ppm	ASTM D6304	>500	54	33.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	187	490	
Particles >6µm		ASTM D7647	>1300	51	141	
Particles >14µm		ASTM D7647	>160	8	28	
Particles >21µm		ASTM D7647	>40	3	10	
Particles >38µm		ASTM D7647	>10	0	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	16/14/12	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.40	0.40	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WC0898306 Lab Number : 06235926 Unique Number : 11124760

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** 

: 16 Jul 2024 Diagnosed : 16 Jul 2024 - Wes Davis Test Package : IND 2 ( Additional Tests: KF )

US 41169 Contact: CORY GUMBERT cagumbert@marathonpetroleum.com T: (606)585-3950

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: MARCAT [WUSCAR] 06235926 (Generated: 07/16/2024 09:41:58) Rev: 1

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101 12TH ST

CATLETTSBURG, KY