

# **PROBLEM SUMMARY**

# Sample Rating Trend

WATER



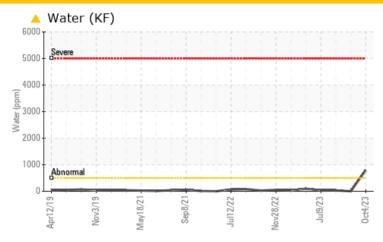
Paul G. Blazer

[Paul G. Blazer] Hydraulic - Flanking

Hydraulic System

**AW HYDRAULIC OIL ISO 46 (150 GAL)** 

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC T	PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL		
Water	%	ASTM D6304	>0.05	<b>△</b> 0.078	0.00	0.003		
ppm Water	ppm	ASTM D6304	>500	<b>788.3</b>	0.00	34.2		

Customer Id: MARCAT Sample No.: WC0719544 Lab Number: 05978236 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 31 Aug 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 07 Aug 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 09 Jul 2023 Diag: Doug Bogart

VIS DEBRIS



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# WATER

WATER

# Paul G. Blazer [Paul G. Blazer] Hydraulic - Flanking

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (150 GAL)** 

Fluid

AW III BILAGEIG GIE 100 40 (100 GAE)

# DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

# Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

#### **Fluid Condition**

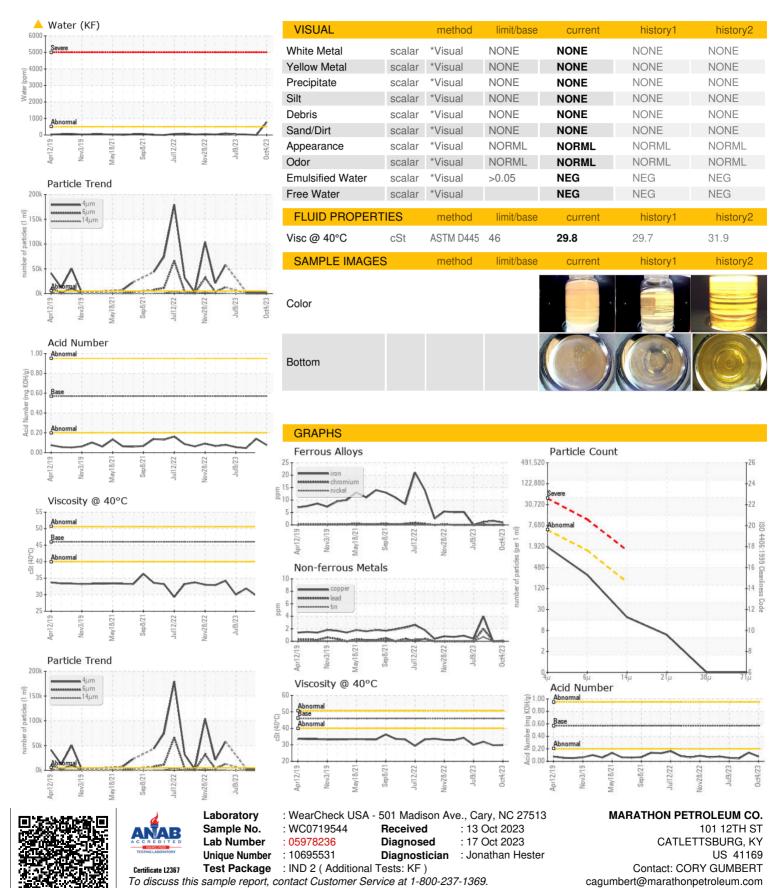
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

N	me	thod		limit/b	ase	C	urren	t	r
		pr2019	Nov2019	May2021	Sep2021	Jul2022	Nov2022	Jul2023	Oct202
			IJ.					l, o	
		130000							
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0719544	WC0621765	WC0719301
Sample Date		Client Info		04 Oct 2023	31 Aug 2023	07 Aug 2023
Machine Age	hrs	Client Info		2147	1438	909
Oil Age	hrs	Client Info		2147	1438	909
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	2	1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m	720	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	2
Copper	ppm	ASTM D5185m	>20	<1	0	4
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m	720	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	1
Manganese	ppm	ASTM D5185m		0	0	2
Magnesium	ppm	ASTM D5185m	25	3	2	0
Calcium	ppm	ASTM D5185m	200	6	22	2
Phosphorus	ppm	ASTM D5185m	300	38	39	18
Zinc	ppm	ASTM D5185m	370	42	55	0
Sulfur	ppm	ASTM D5185m	2500	137	168	105
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	1
Sodium	ppm	ASTM D5185m	00	<1	<1	5
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water	%	ASTM D6304		<u>^</u> 0.078	0.00	0.003
ppm Water	ppm	ASTM D6304		<b>▲</b> 788.3	0.00	34.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1633	1718	3267
Particles >6µm		ASTM D7647		260	138	382
Particles >14µm		ASTM D7647	>160	16	7	9
Particles >21µm		ASTM D7647		5	1	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	18/14/10	19/16/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.077	0.14	0.046



# **OIL ANALYSIS REPORT**



\* - 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)

F: x:

T: (606)585-3950