

## **PROBLEM SUMMARY**

#### Area West Virginia Machine Id [West Virginia] Hydraulic - Flanking Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (35 GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Thurman Richardson )

PROBLEMATIC TEST RESULTS										
Sample Status		ABNORMAL								
Copper	ppm	ASTM D5185m	>20	🔺 55						

Customer Id: MARCAT Sample No.: WC0769151 Lab Number: 05899898 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

### West Virginia [West Virginia] Hydraulic - Fl mponen

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (35 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Thurman Richardson )

#### 🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

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

Flanking				Jun 2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0769151		
Sample Date		Client Info		30 Jun 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>20	<u>_1</u>		
Chromium	nnm	ASTM D5185m	>20	0		
Nickel	nnm	ASTM D5185m	>20	0		
Titanium	nom	ASTM D5185m	20	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	mag	ASTM D5185m	>20	0		
Lead	mag	ASTM D5185m	>20	0		
Copper	mag	ASTM D5185m	>20	▲ 55		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
n DDIIIVEO			-	ourient	motory	motoryz
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybaenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185M	05	0		
Magnesium	ppm	ASTM D5185m	20	0		
Dhaanharua	ppm	ASTM DE105m	200	24		
Zino	ppm	ASTM DE105m	300	303		
Sulfur	ppm	ASTM D5185m	2500	309		
Sullui	ppin	ASTIVI DJ TOJITI	2300	939		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.003		
ppm Water	ppm	ASTM D6304	>500	28.2		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4um		ASTM D7647	>5000	2430		
Particles >6um		ASTM D7647	>1300	212		
Particles >14um		ASTM D7647	>160	31		
Particles >21um		ASTM D7647	>40	10		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Sample Rating Trend

WEAR

Acid Number (AN)

mg KOH/g ASTM D8045 0.57

0.34



# **OIL ANALYSIS REPORT**









Test Package : IND 2 (Additional Tests: KF) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cagumbert@marathonpetroleum.com \* - 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)

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