



# **PROBLEM SUMMARY**

Machine Id **13095** Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 220 (--- GAL)

## COMPONENT CONDITION SUMMARY







WEAR

#### RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

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Sample Status				SEVERE					
Copper	ppm	ASTM D5185m	>20	<b>4</b> 141					
Particles >4µm		ASTM D7647	>5000	<u> </u>					
Particles >6µm		ASTM D7647	>1300	<u> </u>					
Particles >14µm		ASTM D7647	>160	🔺 1879					
Particles >21µm		ASTM D7647	>40	<u> </u>					
Particles >38µm		ASTM D7647	>10	<b>5</b> 3					
Particles >71µm		ASTM D7647	>3	<u> </u>					
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>					

Customer Id: RAYCRAIN Sample No.: PCA0121157 Lab Number: 06150304 Test Package: PLANT



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								
Action	Status	Date	Done By	Description				
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.				
Change Filter			?	We recommend you service the filters on this component.				
Resample			?	We recommend an early resample to monitor this condition.				

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

WEAR

#### Machine Id **13095** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 220 (--- GAL)**

### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### 🔺 Wear

The copper level is severe.

#### Contamination

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

#### Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121157		
Sample Date		Client Info		10 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	13		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	<b>4</b> 141		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	nnm	ASTM D5185m	Ū	0		
Magnesium	ppm	ASTM D5185m	25	0		
Calcium	maa	ASTM D5185m	200	11		
Phosphorus	maa	ASTM D5185m	300	287		
Zinc	maa	ASTM D5185m	370	159		
Sulfur	ppm	ASTM D5185m	2500	1589		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	nom	ASTM D5185m	>15	<1		
Sodium	nnm	ASTM D5185m	210	1		
Potassium	nnm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	NEG		
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FLUID GLEAN	_IINESS	method	limit/base	current	nistory i	nistory2
Particles >4µm		ASTM D7647	>5000	A 128301		
Particles >6µm		ASTM D7647	>1300	<b>A</b> 31930		
Particles >14µm		ASTM D7647	>160	<b>1879</b>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	<b>▲</b> 53		
Particles >71µm		ASTM D7647	>3	<u>6</u>		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.26		



# **OIL ANALYSIS REPORT**





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)

Report Id: RAYCRAIN [WUSCAR] 06150304 (Generated: 04/30/2024 15:00:16) Rev: 1

Certificate 12367

Laboratory

Sample No.

Contact/Location: DON B. - RAYCRAIN

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