

# **PROBLEM SUMMARY**

# Machine Id **NOT GIVEN WC0805489 - STEERING**

Hydraulic System Fluid NOT GIVEN (--- GAL)

# COMPONENT CONDITION SUMMARY





# Sample Rating Trend WATER



### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

# PROBLEMATIC TEST RESULTS

THOBEEM/THO TEOT TEODETO									
Sample Status				ABNORMAL					
Water	%	ASTM D6304	>0.05	<b>A</b> 0.375					
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 3751.9					
Particles >4µm		ASTM D7647	>5000	<u> </u>					
Particles >6µm		ASTM D7647	>1300	🔺 112622					
Particles >14µm		ASTM D7647	>160	<b>4773</b>					
Particles >21µm		ASTM D7647	>40	<b>470</b>					
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>					
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>A</b> 2.12					

Customer Id: MARCAT Sample No.: WC0805489 Lab Number: 05966287 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Water Access			?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend

# Machine Id **NOT GIVEN WC0805489 - STEERING**

Hydraulic System Fluid NOT GIVEN (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

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

## Fluid Condition

The AN level is above the recommended limit.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805489		
Sample Date		Client Info		01 Oct 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	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>20	_ <1		
Nickel	nnm	ASTM D5185m	>20	-1		
Titanium	nnm	ASTM D5185m	20	0		
Silver	nnm	ASTM D5185m		0		
Aluminum	nnm	ASTM D5185m	>20	0		
Lead	nnm	ASTM D5185m	>20	0		
Copper	nnm	ASTM D5185m	>20	2		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	nnm	ASTM D5185m	20	-1		
Cadmium	ppm	AGTM D5105m		-1		
Caumum	ррпі	ASTIVI DUTOJIII		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		14		
Phosphorus	ppm	ASTM D5185m		514		
Zinc	ppm	ASTM D5185m		25		
Sulfur	ppm	ASTM D5185m		51		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	<b>A</b> 0.375		
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 3751.9		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	<b>4773</b>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	6		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 25/24/19		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>A</b> 2.12		





# **OIL ANALYSIS REPORT**









Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

\* - 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)

Contact/Location: CORY GUMBERT - MARCAT

F: x:

T: (606)585-3950