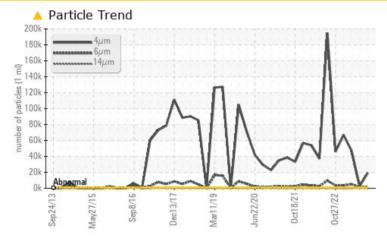


PROBLEM SUMMARY

Morony Machine Id MRN02 Turbine Guide Bearing Component

Case Drain Turbine Bearing Fluid CONOCO TURBINE OIL 68 (30 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>640	🔺 19311	<u> </u>	4 7132				
Particles >6µm	ASTM D7647	>160	🔺 1181	1 460	5 117				
Oil Cleanliness	ISO 4406 (c)	>16/14/12	<u> </u>	19/18/15	▲ 23/20/14				

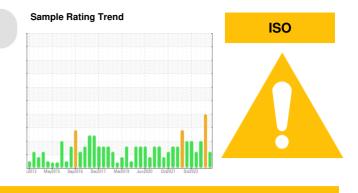
Customer Id: PPLBUT Sample No.: WC0843436 Lab Number: 05994343 Test Package: IND 2



To manage this report scan the QR code

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

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 Filter			?	We recommend you service the filters on this component if applicable.	

HISTORICAL DIAGNOSIS



15 Jul 2023 Diag: Don Baldridge

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. Free water present. The AN level is acceptable for this fluid.



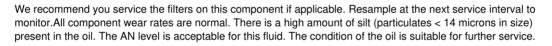
view report

01 May 2023 Diag: Don Baldridge



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

18 Jan 2023 Diag: Jonathan Hester









OIL ANALYSIS REPORT

Area Morony Machine Id MRN02 Turbine Guide Bearing Component

Case Drain Turbine Bearing Fluid CONOCO TURBINE OIL 68 (30 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

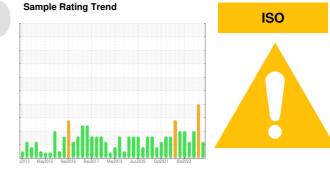
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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



SAMPLE INFORM		method	limit/base	current	history1	history2
			IIIIIVDase			
Sample Number		Client Info		WC0843436	WC0715263	WC0757809
Sample Date		Client Info		17 Oct 2023	15 Jul 2023	01 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	5	5
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	1	3	5
Copper	ppm	ASTM D5185m	>20	<1	<1	1
Tin	ppm	ASTM D5185m	>20	4	4	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		21	4	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		<1	<1	<1
Phosphorus	ppm	ASTM D5185m		44	16	13
Zinc	ppm	ASTM D5185m		26	7	6
Sulfur	ppm	ASTM D5185m		79	100	101
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		3	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>2	0.145	0.017	
ppm Water	ppm	ASTM D6304		1450	178.7	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	<u> </u>	a 2680	4 7132
Particles >6µm		ASTM D7647	>160	🔺 1181	1 460	<u> </u>
Particles >14µm		ASTM D7647	>40	21	<u> </u>	1 22
Particles >21µm		ASTM D7647	>10	3	<u> </u>	<u> </u>
Particles >38µm		ASTM D7647	>3	0	1 3	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>16/14/12	A 21/17/12	▲ 19/18/15	▲ 23/20/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	KOUK		0.00	0.081	0.079	0.05

Acid Number (AN)

mg KOH/g ASTM D8045 0.08

0.079

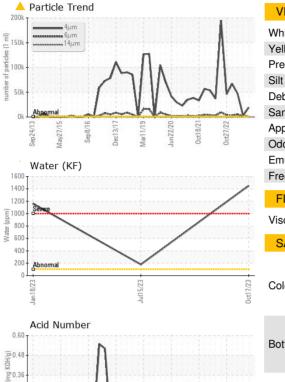
0.081

0.05

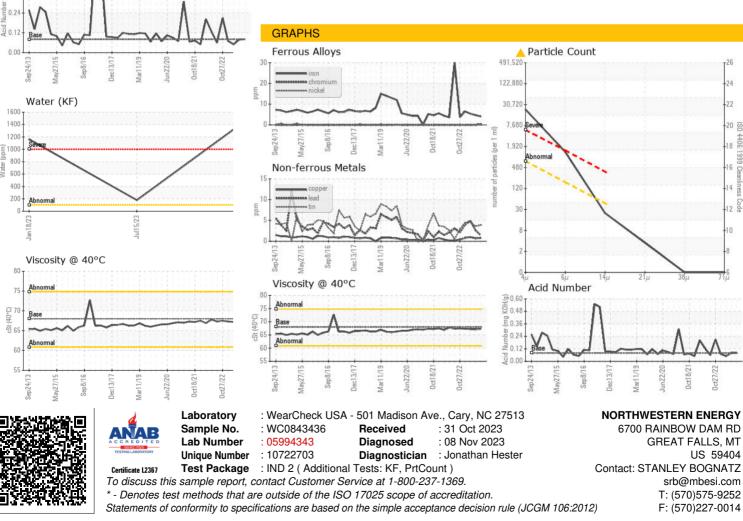


Water

OIL ANALYSIS REPORT







Contact/Location: STANLEY BOGNATZ - PPLBUT