

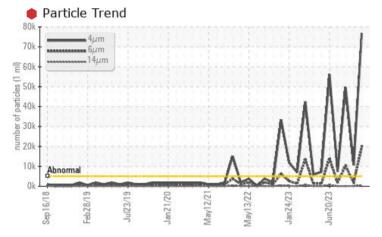
## **PROBLEM SUMMARY**

#### Area BOF/OG SYSTEM Machine Id D - 8 Skirt Lifting and Seal Jacking Hydraulics Component

Hydraulic System

FORSYTHE NO FIRE WG 200R (350 GAL)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

#### PROBLEMATIC TEST RESULTS Sample Status SEVERE ABNORMAL SEVERE Particles >4µm ASTM D7647 >5000 6 76641 ▲ 10674 49567 Particles >6µm ASTM D7647 >1300 19596 **1**749 10231 Particles >14µm ASTM D7647 >160 593 117 93 **Oil Cleanliness** ISO 4406 (c) >19/17/14 23/21/16 21/18/14 23/21/14

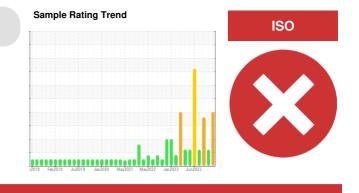
Customer Id: LEWBOSC Sample No.: WC0890384 Lab Number: 02603623 Test Package: IND 2



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*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Filter			?	We recommend you service the filters on this component.				
Resample			?	Resample in 30-45 days to monitor this situation.				
Contact Required			?	Please contact your representative for information regarding the proper sampling kits for your service.				
Alert			?	NOTE: We recommend using IND 3 test kits,				
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.				
Check Seals			?	Check seals and/or filters for points of contaminant entry.				

#### HISTORICAL DIAGNOSIS

#### 16 Oct 2023 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



# ISO

#### 16 Aug 2023 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

#### 13 Jul 2023 Diag: Kevin Marson

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 light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report





## **COOLANT REPORT**

#### Area BOF/OG SYSTEM Machine Id D - 8 Skirt Lifting and Seal Jacking Hydraulics

Hydraulic System

FORSYTHE NO FIRE WG 200R (350 GAL)

#### DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

#### Wear

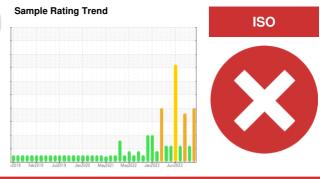
Component wear rates appear to be normal (unconfirmed).

#### 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 pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0890384	WC0871213	WC0850090
Sample Date		Client Info		15 Dec 2023	16 Oct 2023	16 Aug 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				SEVERE	ABNORMAL	SEVERE
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
CORROSION INHIE	BITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		2	<1	0
Phosphorus	ppm	ASTM D5185(m)		1	<1	0
Boron	ppm	ASTM D5185(m)		<1	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	0	0	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Tin	ppm	ASTM D5185(m)	>20	0	0	<1
Silver	ppm	ASTM D5185(m)		<1	<1	0
Zinc	ppm	ASTM D5185(m)		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>e</b> 76641	🔺 10674	49567
Particles >6µm		ASTM D7647	>1300	🛑 19596	<b>1</b> 749	• 10231
Particles >14µm		ASTM D7647	>160	<u> </u>	117	93
Particles >21µm		ASTM D7647	>40	43	51	11
Particles >38µm		ASTM D7647	>10	6	9	2
Particles >71µm		ASTM D7647	>3	0	4	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/21/16	<u> </u>	23/21/14
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		178	136	106
Potassium	ppm	ASTM D5185(m)		10	6	0
SCALE POTENTIA	L	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)		2	0	2
Magnesium	ppm	ASTM D5185(m)		<1	0	0



## **COOLANT REPORT**

