

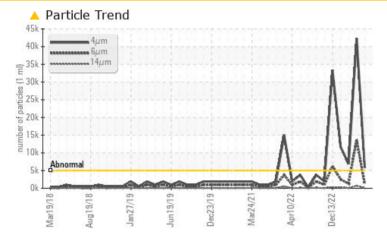
PROBLEM SUMMARY

BOF/OG SYSTEM [TOP TANK] Machine Id D - 8 Skirt Lifting and Seal Jacking Hydraulics Component

Hydraulic System

FORSYTHE NO FIRE WG 200R (350 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	SEVERE	ATTENTION		
Particles >4µm	ASTM D7647	>5000	<u> </u>	42292	6879		
Particles >6µm	ASTM D7647	>1300	🔺 1357	13692	1294		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	23/21/17	2 0/17/13		

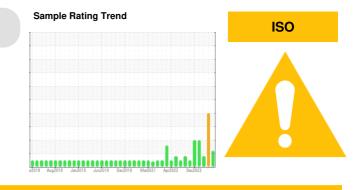
Customer Id: LEWBOSC Sample No.: WC0830413 Lab Number: 02564552 Test Package: IND 2



To manage this report scan the QR code

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	MISSED	Jun 20 2023	?	We recommend you service the filters on this component.			

HISTORICAL DIAGNOSIS



30 May 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.



view report

28 Feb 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.

24 Jan 2023 Diag: Bill Quesnel

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are notably high. Particles >21µm are notably high. 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 view report



serviceable provided that the contaminant(s) can be reduced to acceptable levels.



OIL ANALYSIS REPORT

SAMPLE INFORMATION

hrs

hrs

Sample Number

Sample Date

Machine Age

Oil Age

S Ρ V р

BOF/OG SYSTEM [TOP TANK] D - 8 Skirt Lifting and Seal Jacking Hydraulics Component

Hydraulic System

FORSYTHE NO FIRE WG 200R (350 GAL)

DIAGNOSIS

Recommendation

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

Wear

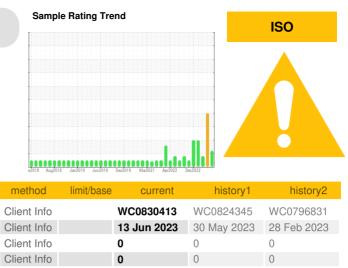
All component wear rates are normal.

Contamination

There is a light 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 condition of the oil is suitable for further service.



Oll Age	1115	Client Inio		U	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	SEVERE	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>99999	0	1	0
Iron	ppm	ASTM D5185(m)	>20	<1	<1	1
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	2	2	2
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	4	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	0	1
Calcium	ppm	ASTM D5185(m)		<1	1	2
Phosphorus	ppm	ASTM D5185(m)		<1	2	1
Zinc	ppm	ASTM D5185(m)		0	0	1
Sulfur	ppm	ASTM D5185(m)		7	14	15
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	1	1
• "						

FLUID CLEANLINESS meth		method	limit/base	current	history1	history2
opm Water	ppm	ASTM D6304*	>10%	371000	364000	384224.9
Nater	%	ASTM D6304*		37.1	36.4	38.42
Potassium	ppm	ASTM D5185(m)	>20	26	51	29
Sodium	ppm	ASTM D5185(m)		215	230	240
Silicon	ppm	ASTM D5185(m)	>15	<1	1	1

Particles >4µm	ASTM D7647	>5000	6 5798	42292	6 879
Particles >6µm	ASTM D7647	>1300	<u> </u>	13692	1294
Particles >14µm	ASTM D7647	>160	78	<u> </u>	75
Particles >21µm	ASTM D7647	>40	17	27	27
Particles >38µm	ASTM D7647	>10	1	0	2
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	 20/18/13	23/21/17	a 20/17/13

23/21/17 20/17/13 Contact/Location: Tom Walden - LEWBOSC

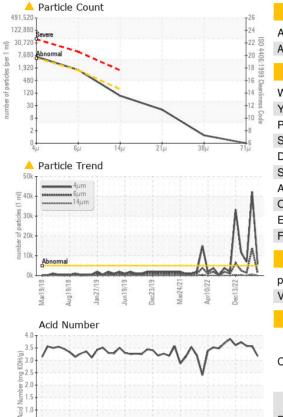


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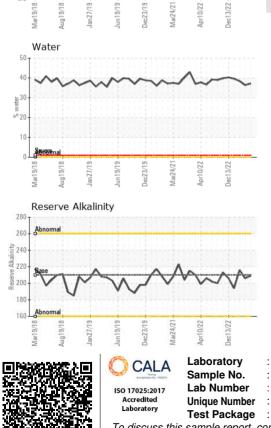
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OIL ANALYSIS REPORT

Bottom



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) Alkiline Reserve (Oils)	mg KOH/g ml KOH/g	ASTM D974* ASTM D1121*	210	3.17 209	3.57 206	3.58 216
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	FRGLY	FRGLY	FRGLY
Odor	scalar	Visual*	NORML	NORML	NORML	FREON
Emulsified Water	scalar	Visual*		>10%	>10%	>10%
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287*		9.49	9.54	9.59
Visc @ 40°C	cSt	ASTM D7279(m)	43	42.2	42.3	40.4
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 STELCO - BOSC - Basic Oxygen Slab Caster : WC0830413 Received : 15 Jun 2023 2330 Regional Road #3, Door: BOSC8 : 02564552 Diagnosed : 20 Jun 2023 NANTICOKE, ON : 5593593 Diagnostician : Kevin Marson CA N0A 1L0 Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man) Contact: Tom Walden Thomas.Walden@stelco.com To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)587-4541 Validity of results and interpretation are based on the sample and information as supplied. F: (519)587-7702