



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
BOF/OG SYSTEM
Machine Id
D - 7 Skirt Lifting and Seal Jacking Hydraulics
Component
Hydraulic System
Fluid
FORSYTHE NO FIRE WG 200R (350 GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0782116	WC0756729	WC0743603
Sample Date		Client Info		24 Jan 2023	26 Oct 2022	13 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>99999	4	0	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
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

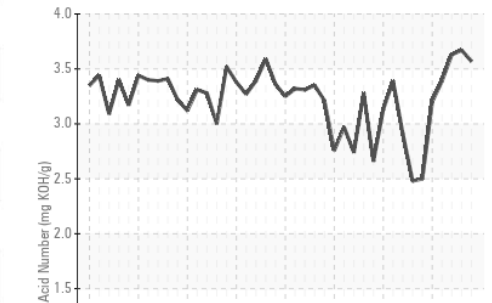
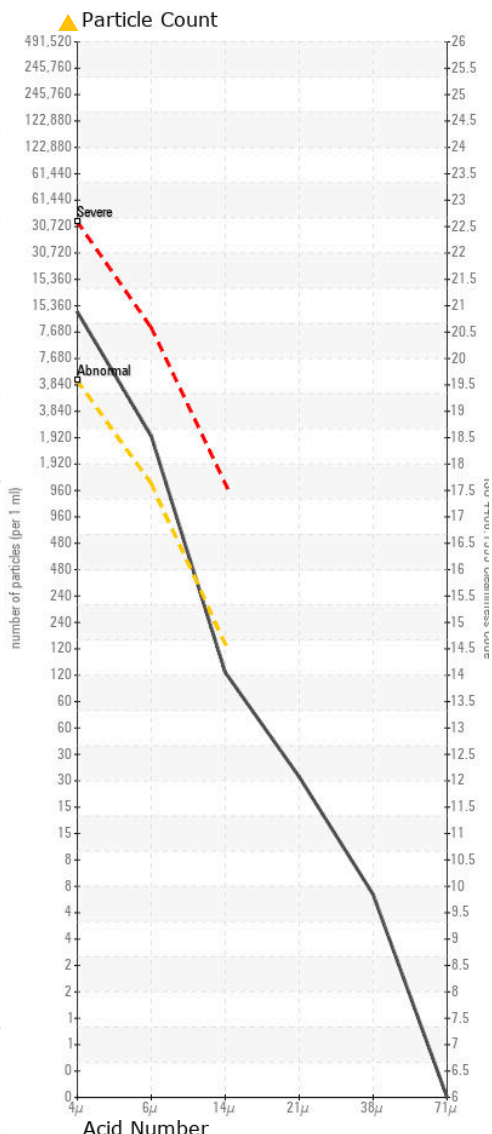
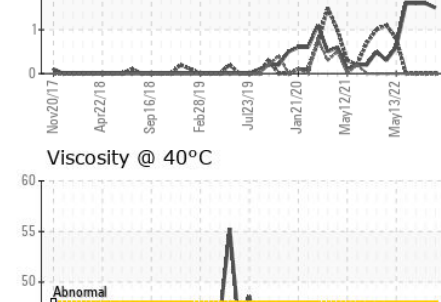
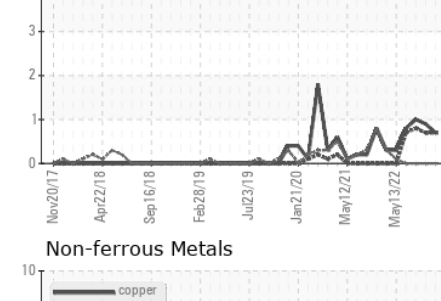
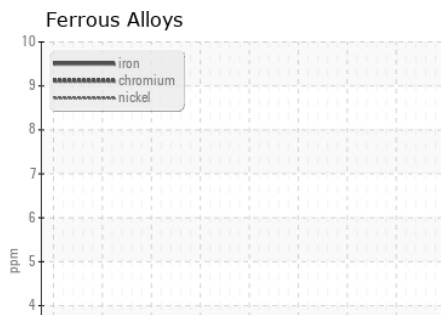
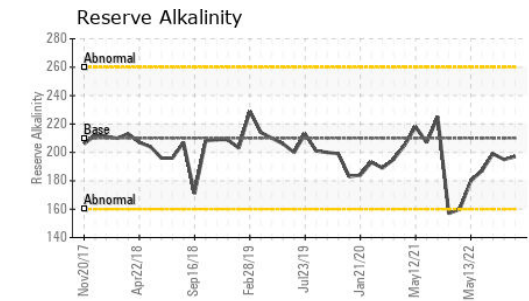
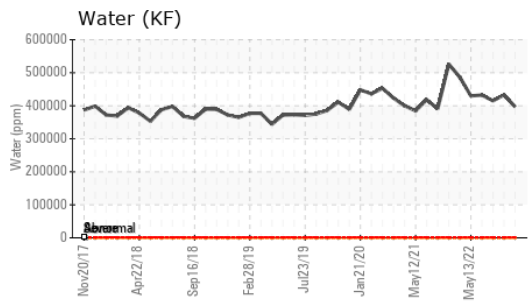
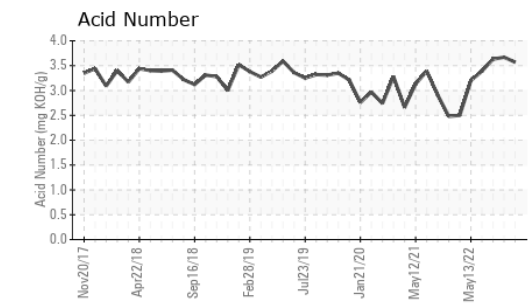
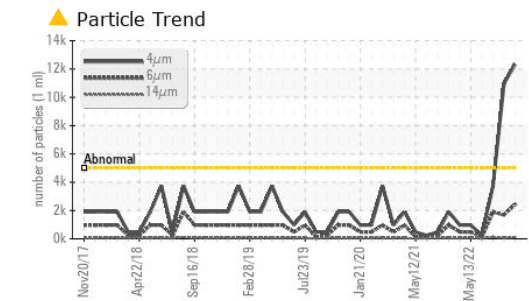
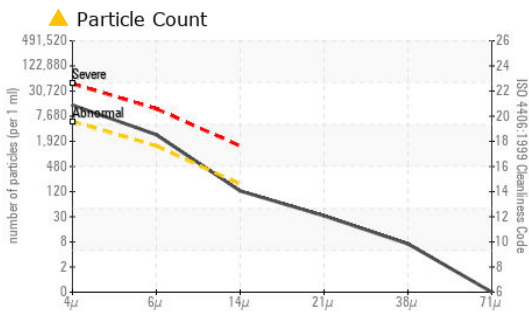
Particles >4µm and oil cleanliness are abnormally high. Particles >6µm are notably high.

Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	16	31	26
Water	%	ASTM D6304*		39.71	43.28	41.48
ppm Water	ppm	ASTM D6304*	>10%	397127.5	432810.8	414890.3
Particles >4µm		ASTM D7647	>5000	▲ 12315	▲ 10975	3750
Particles >6µm		ASTM D7647	>1300	▲ 2423	▲ 1690	▲ 1900
Particles >14µm		ASTM D7647	>160	110	56	120
Particles >21µm		ASTM D7647	>40	28	12	15
Particles >38µm		ASTM D7647	>10	6	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/14	▲ 21/18/13	▲ 19/18/14
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	FRGLY	FRGLY	FRGLY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*		>10%	>10%	>10%

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.

Sodium	ppm	ASTM D5185(m)		208	226	226
Boron	ppm	ASTM D5185(m)		<1	<1	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	<1	<1
Calcium	ppm	ASTM D5185(m)		<1	1	1
Phosphorus	ppm	ASTM D5185(m)		4	2	1
Zinc	ppm	ASTM D5185(m)		0	<1	<1
Sulfur	ppm	ASTM D5185(m)		3	4	4
Acid Number (AN)	mg KOH/g	ASTM D974*		3.57	3.67	3.63
pH	Scale 0-14	ASTM D1287*		9.36	9.36	9.52
Visc @ 40°C	cSt	ASTM D7279(m)	43	40.4	40.0	▲ 36.4
Alkaline Reserve (Oils)	ml KOH/g	ASTM D1121*	210	197	195	199



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0782116 **Received** : 25 Jan 2023 2330 Regional Road #3, Door: BOSC8
Lab Number : 02535510 **Diagnosed** : 03 Feb 2023 NANTICOKE, ON
Unique Number : 5516509 **Diagnostician** : Kevin Marson CA N0A 1L0
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man)

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.
 Validity of results and interpretation are based on the sample and information as supplied.

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