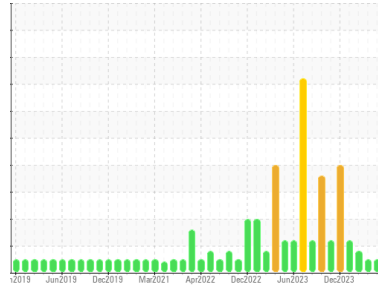




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

BOF/OG SYSTEM

Machine Id

D - 8 Skirt Lifting and Seal Jacking Hydraulics

Component

Hydraulic System

Fluid

FORSYTHE NO FIRE WG 200R (350 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0934082	WC0926488	WC0910445
Sample Date	Client Info	15 Apr 2024	22 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	>99999	0	3
Iron	ppm	ASTM D5185(m)	>20	0
Chromium	ppm	ASTM D5185(m)	>20	0
Nickel	ppm	ASTM D5185(m)	>20	0
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	0
Lead	ppm	ASTM D5185(m)	>20	0
Copper	ppm	ASTM D5185(m)	>20	0
Tin	ppm	ASTM D5185(m)	>20	0
Antimony	ppm	ASTM D5185(m)	0	0
Vanadium	ppm	ASTM D5185(m)	0	0
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	<1
Barium	ppm	ASTM D5185(m)	1	0
Molybdenum	ppm	ASTM D5185(m)	0	0
Manganese	ppm	ASTM D5185(m)	0	0
Magnesium	ppm	ASTM D5185(m)	<1	0
Calcium	ppm	ASTM D5185(m)	<1	0
Phosphorus	ppm	ASTM D5185(m)	<1	0
Zinc	ppm	ASTM D5185(m)	0	0
Sulfur	ppm	ASTM D5185(m)	43	57
Lithium	ppm	ASTM D5185(m)	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1
Sodium	ppm	ASTM D5185(m)	120	181
Potassium	ppm	ASTM D5185(m)	>20	2
Water	%	ASTM D6304*	38.4	38.6
ppm Water	ppm	ASTM D6304*	>10%	384000

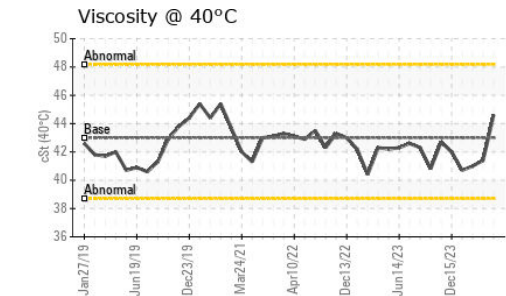
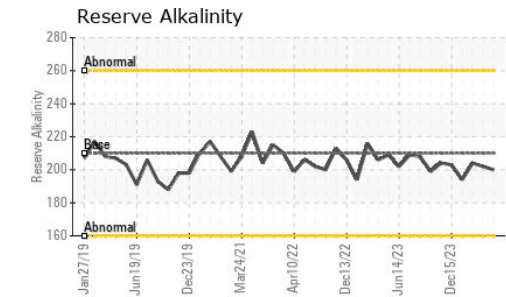
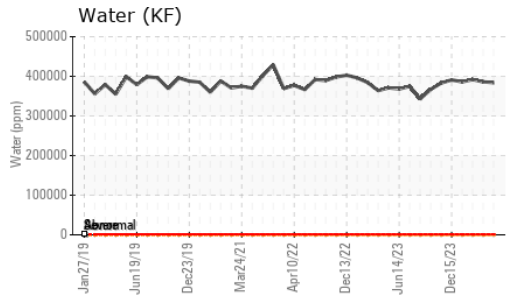
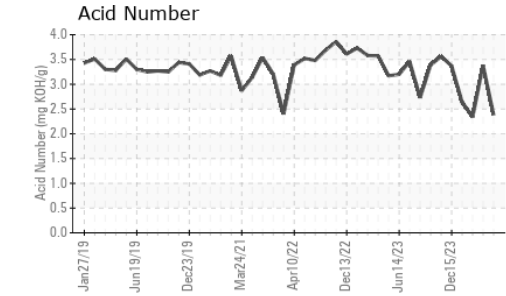
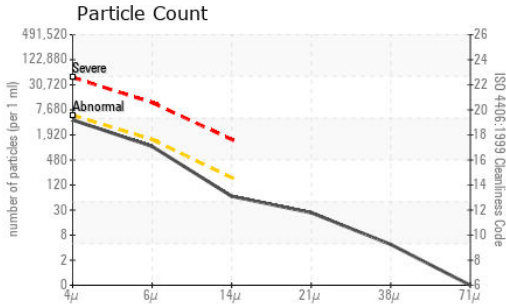
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3845	2255
Particles >6µm	ASTM D7647	>1300	891	523
Particles >14µm	ASTM D7647	>160	57	52
Particles >21µm	ASTM D7647	>40	23	22
Particles >38µm	ASTM D7647	>10	4	3
Particles >71µm	ASTM D7647	>3	0	2

Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/17/13	18/16/13
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OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		2.38	3.38	2.34
Alkiline Reserve (Oils)	ml KOH/g	ASTM D1121*	210	200	202	204

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	NONE	NONE
Appearance	scalar	Visual*	NORML	FRGLY	NORML	FRGLY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*		>10%	NEG	>10%
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287*		9.70	9.70	9.68
Visc @ 40°C	cSt	ASTM D7279(m)	43	44.6	41.4	41.0

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0934082
Lab Number : **02629395**
Unique Number : 5762527
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk)

STELCO - BOSC - Basic Oxygen Slab Caster
 2330 Regional Road #3, Door: BOSC8
 NANTICOKE, ON
 CA N0A 1L0
 Contact: Tom Walden
 Thomas.Walden@stelco.com
 T: (519)587-4541
 F: (519)587-7702

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.