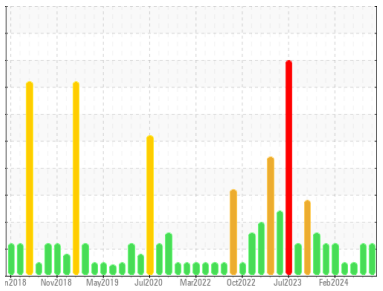
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
BOF/DESULF
Machine Id
D Desulph Skimmer East
Component
Hydraulic System
Fluid
FORSYTHE NO FIRE WG 200R (130 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0956542**	WC0947091	WC0934080
Sample Date		Client Info		**18 Jun 2024**	17 May 2024	15 Apr 2024
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				**ATTENTION**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>99999	**0**	0	0
Iron	ppm	ASTM D5185(m)	>20	**0**	0	0
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>20	**0**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	**0**	0	0
Lead	ppm	ASTM D5185(m)	>20	**0**	0	0
Copper	ppm	ASTM D5185(m)	>20	**<1**	0	0
Tin	ppm	ASTM D5185(m)	>20	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
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)		**2**	<1	2
Barium	ppm	ASTM D5185(m)		**1**	1	1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**<1**	1	<1
Calcium	ppm	ASTM D5185(m)		**3**	<1	<1
Phosphorus	ppm	ASTM D5185(m)		**2**	0	6
Zinc	ppm	ASTM D5185(m)		**2**	<1	0
Sulfur	ppm	ASTM D5185(m)		**53**	47	47
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**2**	<1	<1
Sodium	ppm	ASTM D5185(m)		**190**	176	179
Potassium	ppm	ASTM D5185(m)	>20	**26**	21	46
Water	%	ASTM D6304*		**37.5**	37.9	38.9
ppm Water	ppm	ASTM D6304*	>10%	**375000**	379000	389000

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**8402**	16390	2291
Particles >6µm		ASTM D7647	>1300	**1864**	3085	353
Particles >14µm		ASTM D7647	>160	**110**	108	53
Particles >21µm		ASTM D7647	>40	**21**	29	19
Particles >38µm		ASTM D7647	>10	**4**	8	2
Particles >71µm		ASTM D7647	>3	**0**	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**20/18/14**	21/19/14	18/16/13

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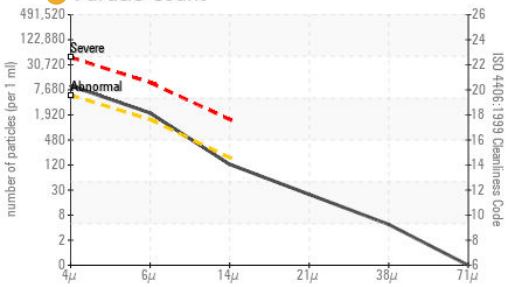
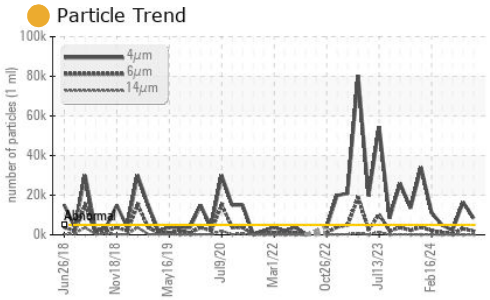
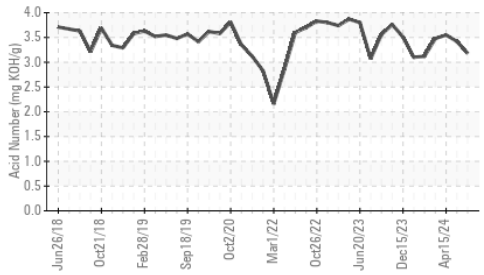
Particle Count



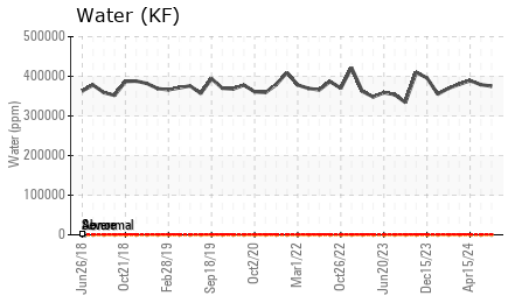
Particle Trend



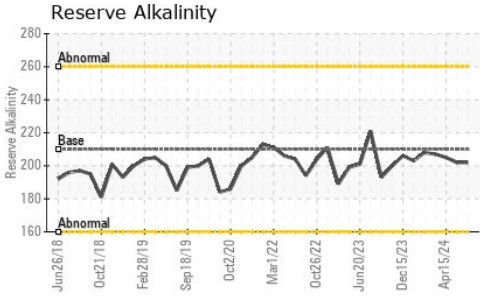
Acid Number



Water (KF)



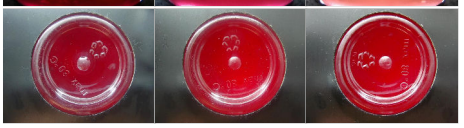
Reserve Alkalinity



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**3.18**	3.42	3.55
Alkiline Reserve (Oils)	ml KOH/g	ASTM D1121*	210	**202**	202	205

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**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	FRGLY
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*		**NEG**	>10%	>10%
Free Water	scalar	Visual*		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287*		**9.82**	9.64	9.57
Visc @ 40°C	cSt	ASTM D7279(m)	43	**42.6**	43.4	43.4

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0956542
Lab Number : 02642696
Unique Number : 5800235
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk)

Received : 18 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Kevin Marson

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.

STELCO - BOSC - Basic Oxygen Slab Caster
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Report Id: LEWBOSC [WCAMIS] 02642696 (Generated: 06/21/2024 16:33:21) Rev: 1

Submitted By: Bob Melanson