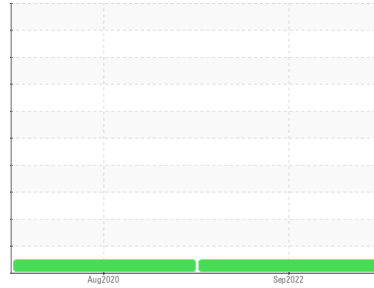




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
SST2 CAT ARM (S/N L0111-2)

Component
Transformer Oil

Fluid
TRANSFORMER NATURAL ESTER FLUID (1848 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand and type of the fluid on your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the transformer oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0506217	WC0380009	---
Sample Date	Client Info		14 Sep 2022	19 Aug 2020	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	NORMAL	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Water	%	ASTM D6304*	>0.01	0.00	0.001	---
ppm Water	ppm	ASTM D6304*	>100	0.00	0	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2681	4219	---
Particles >6µm	ASTM D7647	>1300	509	989	---
Particles >14µm	ASTM D7647	>160	30	86	---
Particles >21µm	ASTM D7647	>40	11	27	---
Particles >38µm	ASTM D7647	>10	1	3	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/16/12	19/17/14	---

DISSOLVED GAS ANALYSIS (DGA)

	method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*	3	---	---
DGA - O2	ppm	ASTM D3612(e)*	17738	---	---
DGA - N2	ppm	ASTM D3612(e)*	68000	---	---
DGA - CO	ppm	ASTM D3612(e)*	107	---	---
DGA - CO2	ppm	ASTM D3612(e)*	874	---	---
DGA - Methane	ppm	ASTM D3612(e)*	2	---	---
DGA - Acetylene	ppm	ASTM D3612(e)*	<1	---	---
DGA - Ethylene	ppm	ASTM D3612(e)*	6	---	---
DGA - Ethane	ppm	ASTM D3612(e)*	<1	---	---
DGA - Total Gas Content	%	ASTM D3612(e)*	86730	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*	118	---	---

FLUID DEGRADATION

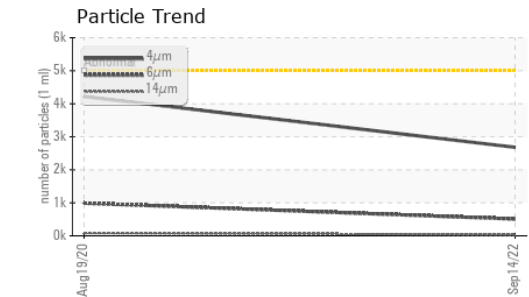
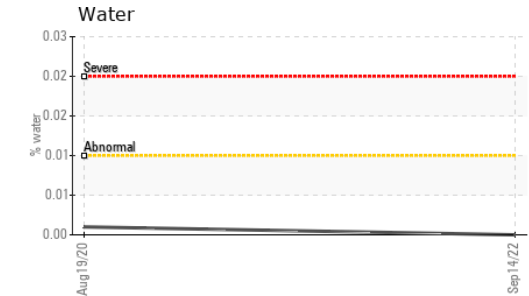
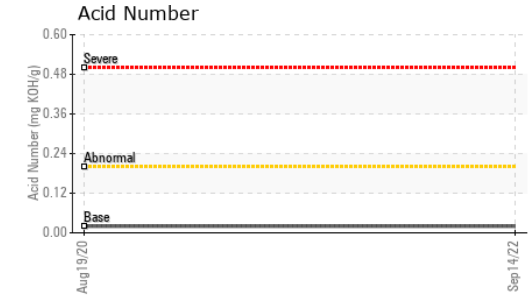
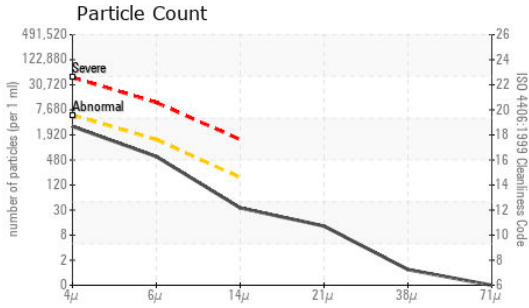
	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.02	0.02	---

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---

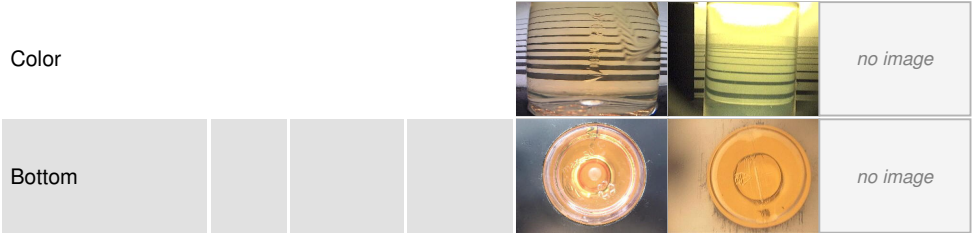


OIL ANALYSIS REPORT

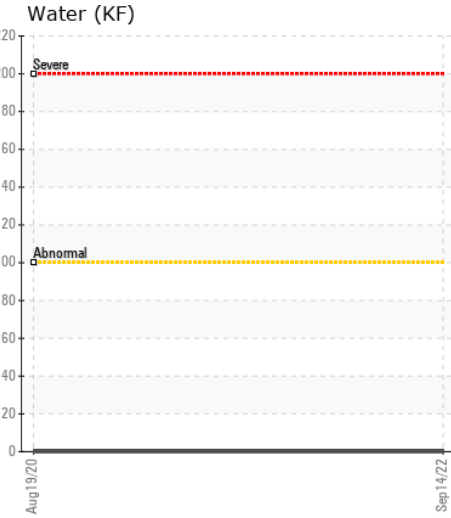
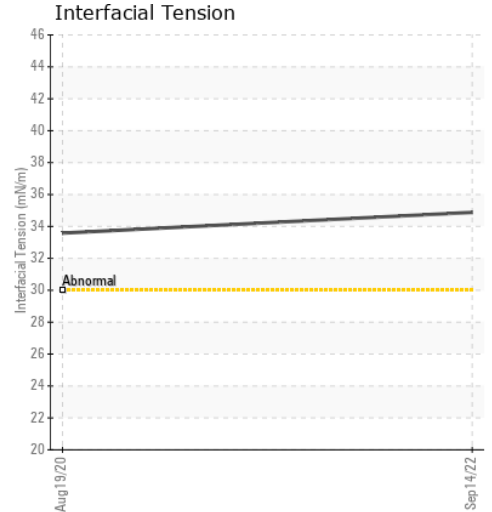
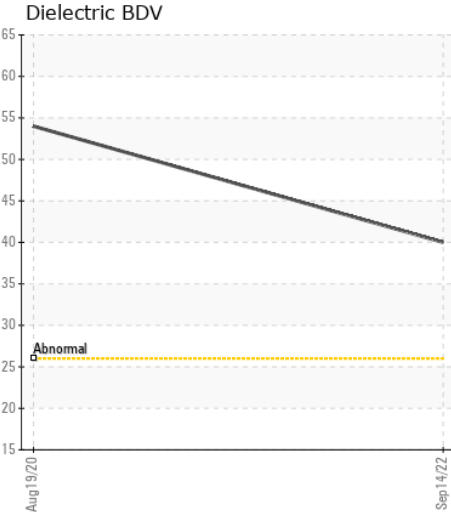


FLUID PROPERTIES	method	limit/base	current	history1	history2
Specific Gravity	ASTM D4052(e)	0.920	0.921	0.863	---
Dielectric Breakdown	kV ASTM D3612(e)*		40	54	---
Interfacial Tension	mN/m ASTM D971(e)*		34.88	33.58	---
ASTM Color	scalar ASTM D1500(e)	0.5	<1.5	<1.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 NEWFOUNDLAND & LABRADOR HYDRO
Sample No. : WC0506217 **Received** : 26 May 2023
Lab Number : 02560015 **Diagnosed** : 13 Jul 2023
Unique Number : 5581055 **Diagnostician** : Bill Quesnel
Test Package : TRF 2 (Additional Tests: PrtCount)

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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