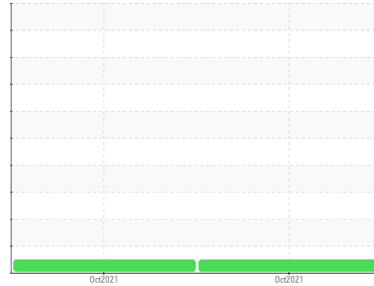




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id HLK STATION SERVICE XMFR

Component
Transformer Oil

Fluid
ESSO VOLTESSO 35 (345 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

{not applicable}

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			WC0502017	WC0506216	---
Sample Date	Client Info			27 Oct 2021	27 Oct 2021	---
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*	>0.0035	0.002	0.002	---
ppm Water	ppm	ASTM D6304*	>35	16.9	20.8	---

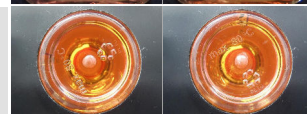
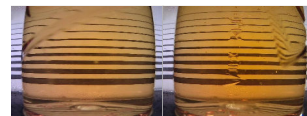
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	427	561	---
Particles >6µm		ASTM D7647	>1300	153	230	---
Particles >14µm		ASTM D7647	>160	23	32	---
Particles >21µm		ASTM D7647	>40	9	11	---
Particles >38µm		ASTM D7647	>10	1	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/12	16/15/12	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.01	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	---

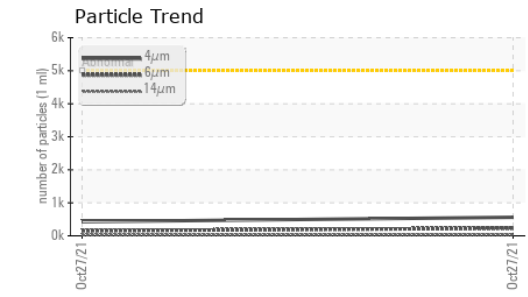
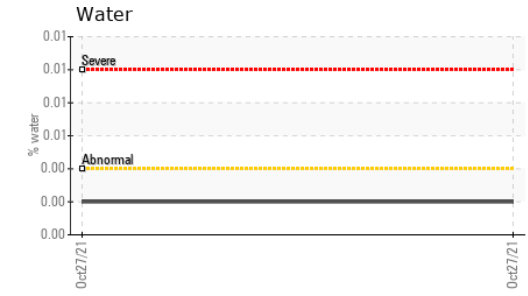
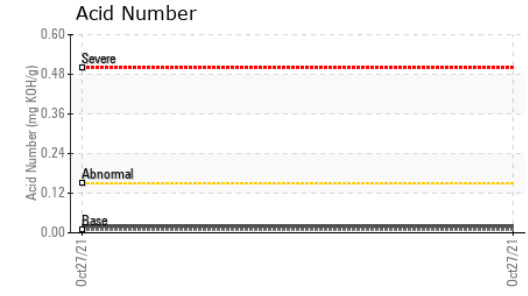
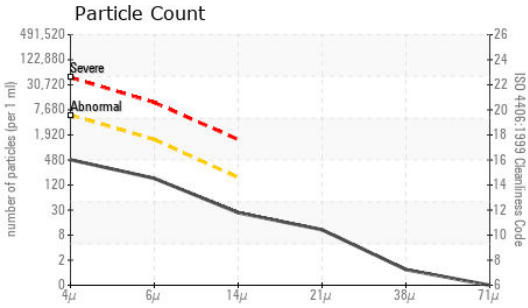
FLUID PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D4052(e)	.877	0.862	0.862	---
Dielectric Breakdown	kV	ASTM D3612(e)*		52	44	---
Interfacial Tension	mN/m	ASTM D971(e)*		32.98	32.61	---
ASTM Color	scalar	ASTM D1500(e)	0.5	L2.0	L2.0	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						<i>no image</i>
Bottom						<i>no image</i>

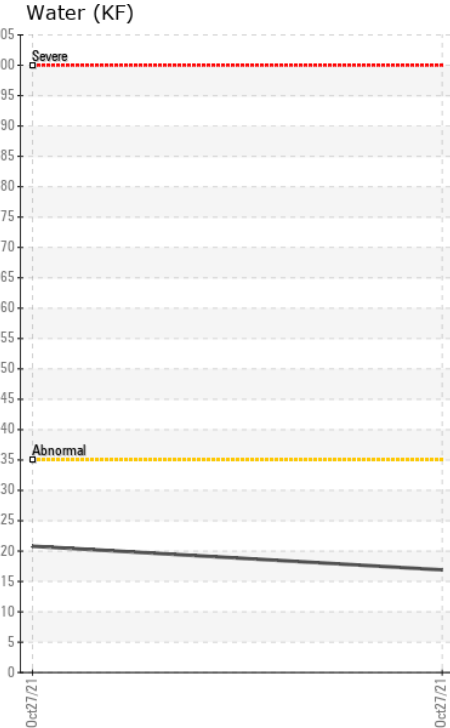
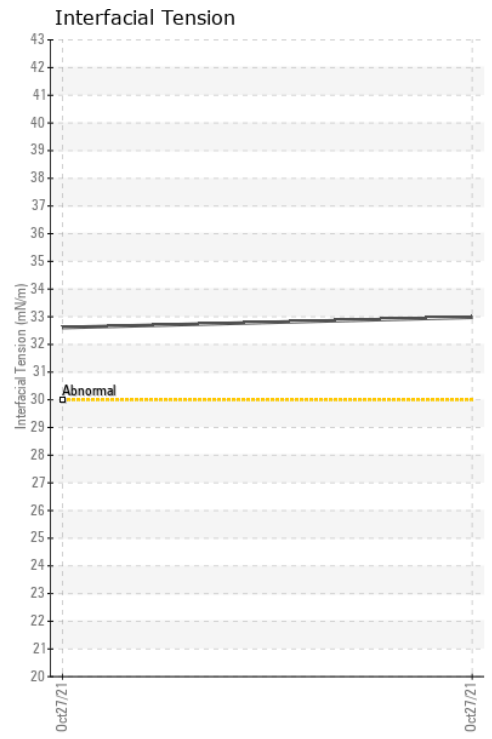
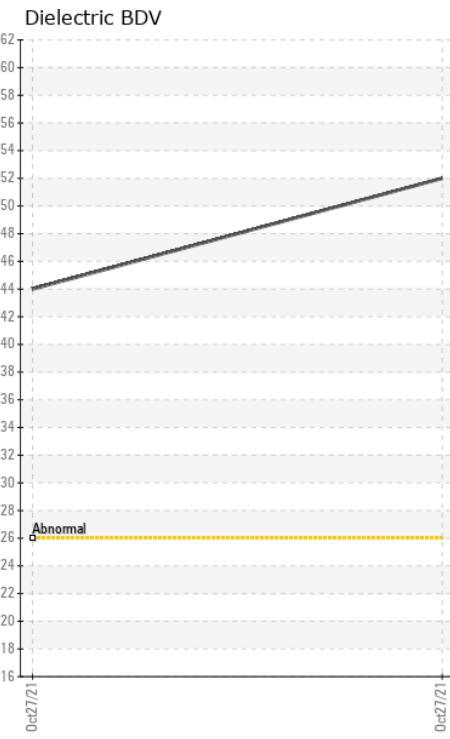




OIL ANALYSIS REPORT



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 NEWFOUNDLAND & LABRADOR HYDRO
Sample No. : WC0502017 **Received** : 05 Jun 2023 BAY D'ESPOIR WHSE., 1 CAMP BOGGY RD., PO BOX 100
Lab Number : 02562010 **Diagnosed** : 21 Jul 2023 MILLTOWN, BAY D'ESPOIR, NL
Unique Number : 5591051 **Diagnostician** : Bill Quesnel CA A0H 1W0
Test Package : TRF 1 (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.

Contact: Matthew Lambert
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 F: (709)882-3161