



PROBLEM SUMMARY

Sample Rating Trend



WATER

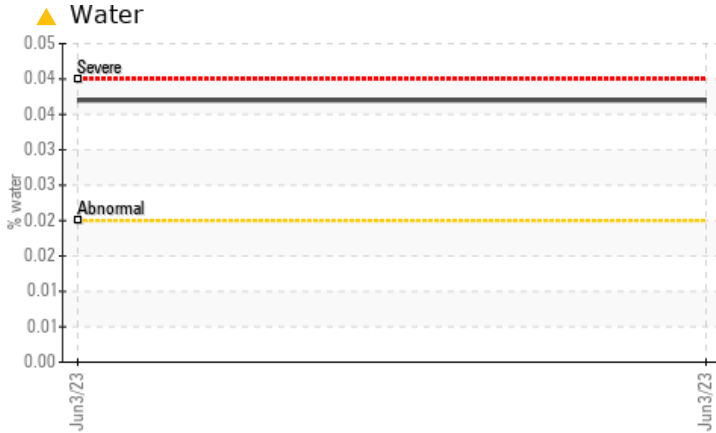


Machine Id
BX0000-003

Component
Transformer Oil

Fluid
ENVIROTEMP FR3 FLUID (1476 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Water	%	ASTM D6304*	>0.02	▲ 0.037	---	---
ppm Water	ppm	ASTM D6304*	>200	▲ 370.6	---	---

Customer Id: NEWMIL
Sample No.: WC0475719
Lab Number: 02562005
Test Package: TRF 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Gloria Gonzalez +1 (289)291-4643 x4643
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RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the transformer oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
BX0000-003

Component
Transformer Oil

Fluid
ENVIROTEMP FR3 FLUID (1476 LTR)

DIAGNOSIS

▲ Recommendation

We recommend an early resample to monitor this condition.

Wear

{not applicable}

▲ Contamination

There is a moderate concentration of water present in the transformer oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The transformer oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0475719	---	---
Sample Date	Client Info	03 Jun 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Water %	ASTM D6304* >0.02	▲ 0.037	---	---
ppm Water	ASTM D6304* >200	▲ 370.6	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	2106	---	---
Particles >6µm	ASTM D7647 >1300	635	---	---
Particles >14µm	ASTM D7647 >160	44	---	---
Particles >21µm	ASTM D7647 >40	12	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	1	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	18/16/13	---	---

DISSOLVED GAS ANALYSIS (DGA)

method	limit/base	current	history1	history2
DGA - H2	ppm ASTM D3612(e)*	0	---	---
DGA - O2	ppm ASTM D3612(e)*	239	---	---
DGA - N2	ppm ASTM D3612(e)*	60132	---	---
DGA - CO	ppm ASTM D3612(e)*	33	---	---
DGA - CO2	ppm ASTM D3612(e)*	749	---	---
DGA - Methane	ppm ASTM D3612(e)*	2	---	---
DGA - Acetylene	ppm ASTM D3612(e)*	0	---	---
DGA - Ethylene	ppm ASTM D3612(e)*	2	---	---
DGA - Ethane	ppm ASTM D3612(e)*	214	---	---
DGA - Total Gas Content	% ASTM D3612(e)*	61371	---	---
DGA - Total Combustible Gas	ppm ASTM D3612(e)*	251	---	---

FLUID DEGRADATION

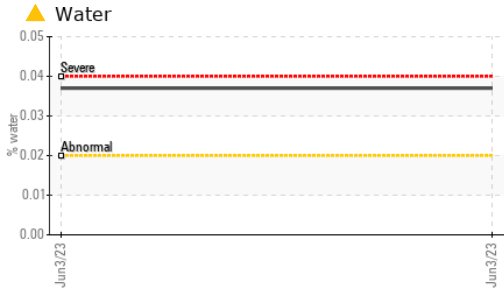
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.22	0.07	---	---

VISUAL

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

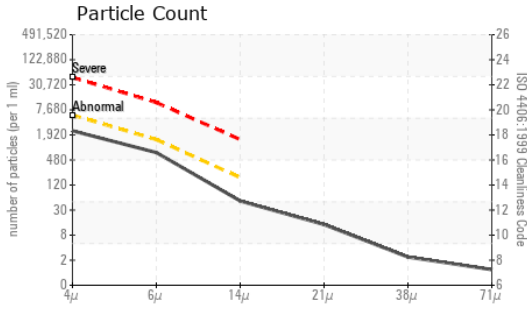


OIL ANALYSIS REPORT

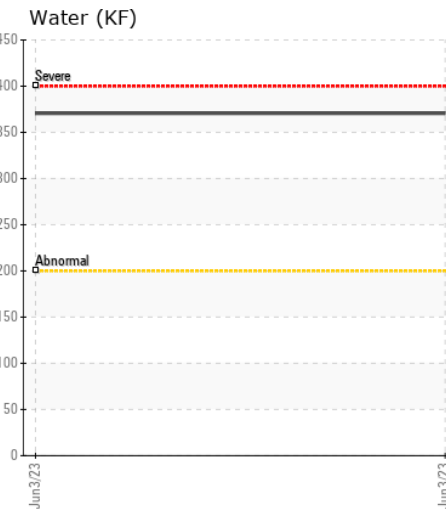
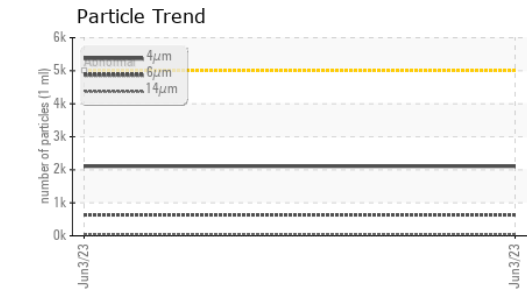
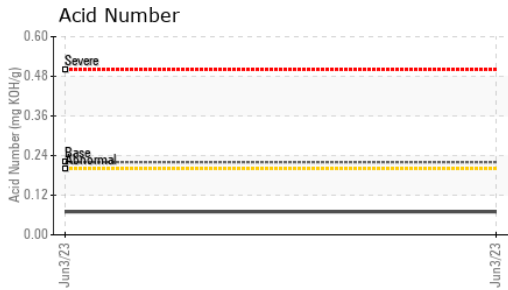
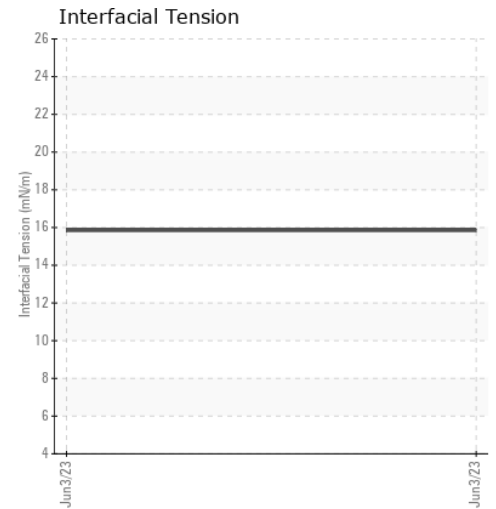
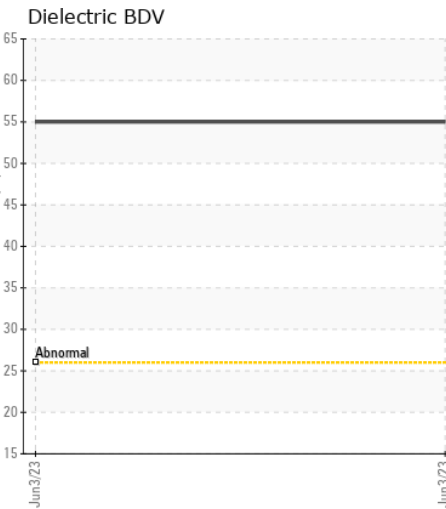


FLUID PROPERTIES	method	limit/base	current	history1	history2
Specific Gravity	ASTM D4052(e)	0.92	0.921	---	---
Dielectric Breakdown	kV ASTM D3612(e)*		55	---	---
Interfacial Tension	mN/m ASTM D971(e)*		15.85	---	---
ASTM Color	scalar ASTM D1500(e)		L0.5	---	---

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 NEWFOUNDLAND & LABRADOR HYDRO
Sample No. : WC0475719 **Received** : 05 Jun 2023 BAY D'ESPOIR WHSE., 1 CAMP BOGGY RD., PO BOX 100
Lab Number : **02562005** **Diagnosed** : 27 Jul 2023 MILLTOWN, BAY D'ESPOIR, NL
Unique Number : 5591046 **Diagnostician** : Bill Quesnel CA A0H 1W0
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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