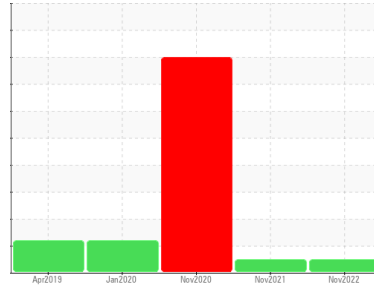




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
35958703-022-01 (S/N FZ6E148BFH)

Component
Transformer Oil
Fluid
{not provided} (674 GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. All tests and evaluation performed at subcontracted ISO 17025 laboratory.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0755677	WC0639045	WC05119928
Sample Date	Client Info			02 Nov 2022	29 Nov 2021	02 Nov 2020
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

CONTAMINANTS		method	limit/base	current	history1	history2
Water	%	ASTM D6304	>0.0035	NEG	NEG	NEG
ppm Water	ppm	ASTM D6304	>35	---	0	0

DISSOLVED GAS ANALYSIS (DGA)		method	limit/base	current	history1	history2
DGA - H2	ppm	*ASTM D3612(e)		---	---	25
DGA - O2	ppm	*ASTM D3612(e)		---	---	185
DGA - N2	ppm	*ASTM D3612(e)		---	---	59601
DGA - CO	ppm	*ASTM D3612(e)		---	---	62
DGA - CO2	ppm	*ASTM D3612(e)		---	---	629
DGA - Methane	ppm	*ASTM D3612(e)		---	---	5
DGA - Acetylene	ppm	*ASTM D3612(e)		---	---	▲ 6
DGA - Ethylene	ppm	*ASTM D3612(e)		---	---	11
DGA - Ethane	ppm	*ASTM D3612(e)		---	---	● 158
DGA - Total Gas Content	%	*ASTM D3612(e)		---	---	60682
DGA - Total Combustible Gas	ppm	*ASTM D3612(e)		---	---	267

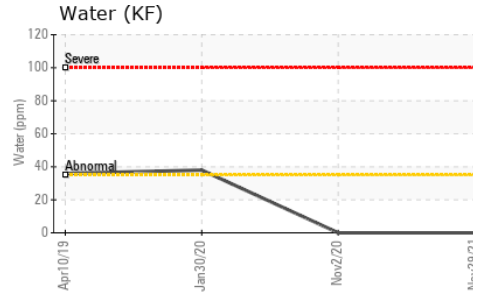
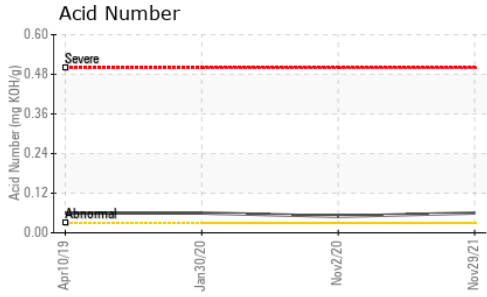
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		---	0.06	0.05

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
Emulsified Water	scalar	*Visual	>0.0035	---	NEG	NEG
Free Water	scalar	*Visual		---	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D4052(e)		---	0.917	0.922
Dielectric Breakdown	kV	ASTM D1816(e)		---	27	27
Interfacial Tension	mN/m	ASTM D971(e)		---	19.92	▲ 20.78
ASTM Color	scalar	ASTM D1500(e)		---	L0.5	L0.5

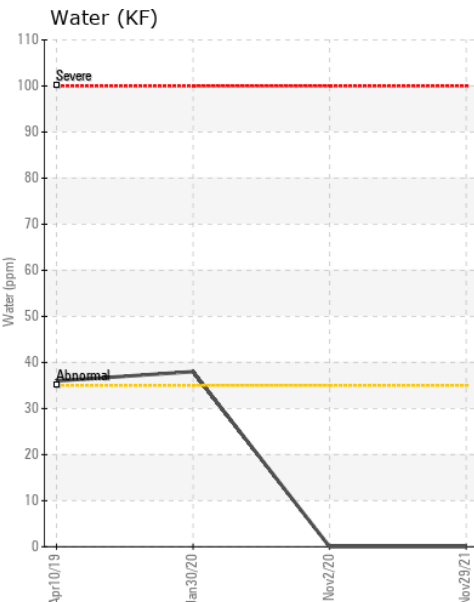
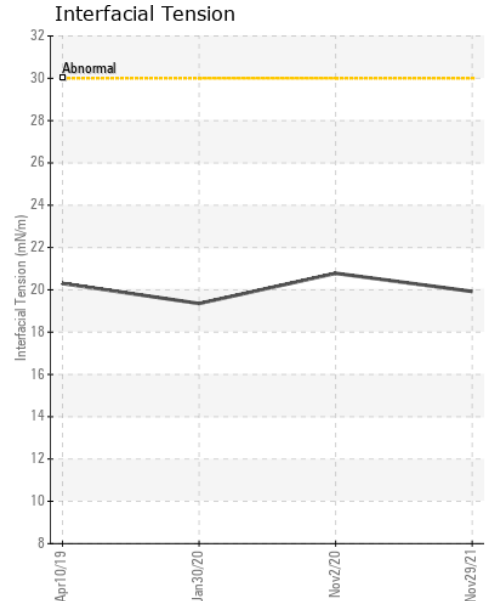
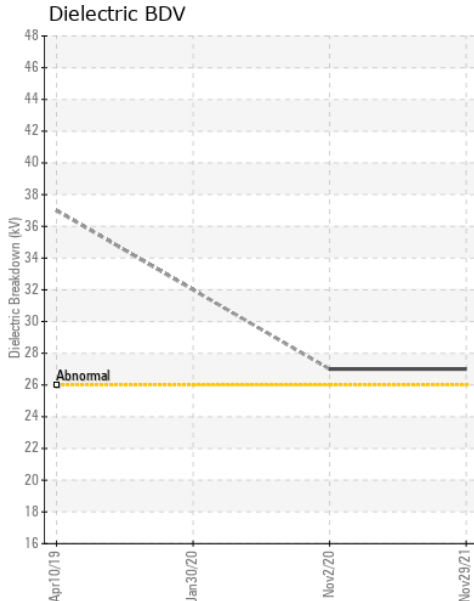


OIL ANALYSIS REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0755677 **Received** : 03 Nov 2022
Lab Number : 05684645 **Tested** : 30 Nov 2022
Unique Number : 10204217 **Diagnosed** : 30 Nov 2022 - Doug Bogart
Test Package : TRF 3

TORAY CARBON FIBERS AMERICA INC
 2202 MOORE DUNCAN HWY
 MOORE, SC
 US 29369
 Contact: Kirk Stilling
 Kirk.stilling@toraycma.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: