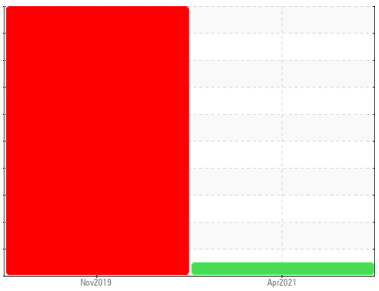
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
THUNDER SPIRIT [700404925]
Machine Id
T041 (S/N 20111455396)
Component
Transformer Oil
Fluid
NOT GIVEN (658 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		**NX05237104**	NX04850266	---
Sample Date		Client Info		**15 Apr 2021**	07 Nov 2019	---
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**	SEVERE	---

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

DISSOLVED GAS ANALYSIS (DGA)		method	limit/base	current	history1	history2
DGA - H2	ppm	*ASTM D3612(e)		---	▲ 43298	---
DGA - O2	ppm	*ASTM D3612(e)		---	494	---
DGA - N2	ppm	*ASTM D3612(e)		---	10748	---
DGA - CO	ppm	*ASTM D3612(e)		---	51	---
DGA - CO2	ppm	*ASTM D3612(e)		---	386	---
DGA - Methane	ppm	*ASTM D3612(e)		---	⬢ 15483	---
DGA - Acetylene	ppm	*ASTM D3612(e)		---	▲ 3	---
DGA - Ethylene	ppm	*ASTM D3612(e)		---	4	---
DGA - Ethane	ppm	*ASTM D3612(e)		---	⬢ 4290	---
DGA - Total Gas Content	%	*ASTM D3612(e)		---	74757	---
DGA - Total Combustible Gas	ppm	*ASTM D3612(e)		---	⬢ 63129	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		---	0.003	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**VLITE**	---	---
Yellow Metal	scalar	*Visual	NONE	**VLITE**	---	---
Precipitate	scalar	*Visual	NONE	**VLITE**	---	---
Silt	scalar	*Visual	NONE	**VLITE**	---	---
Debris	scalar	*Visual	NONE	**VLITE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**VLITE**	---	---
Appearance	scalar	*Visual	NORML	**LAYRD**	---	---
Odor	scalar	*Visual	NORML	**AMMON**	---	---
Emulsified Water	scalar	*Visual	>0.0035	**.1%**	---	---
Free Water	scalar	*Visual		**5%**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D4052(e)		---	0.878	---
Dielectric Breakdown	kV	ASTM D1816(e)		---	▲ 27	---
Interfacial Tension	mN/m	ASTM D971(e)		---	▲ 29.1	---
ASTM Color	scalar	ASTM D1500(e)		---	L1.0	---

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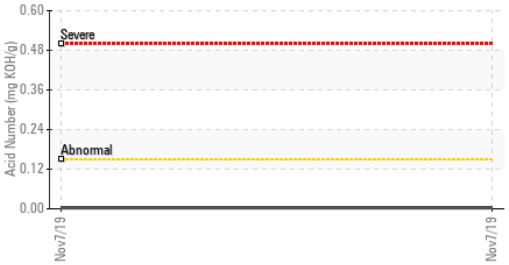
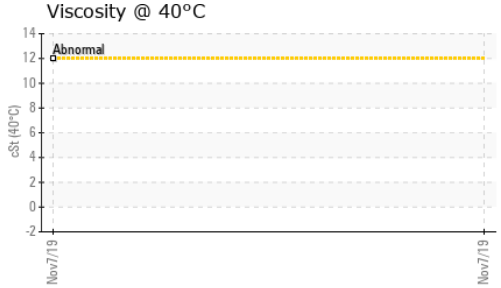
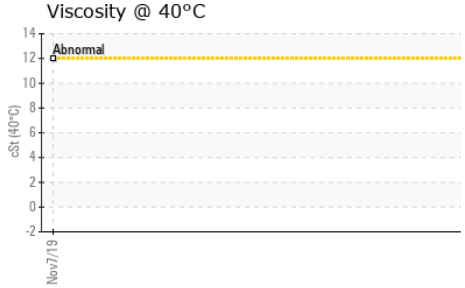
Acid Number



Viscosity @ 40°C



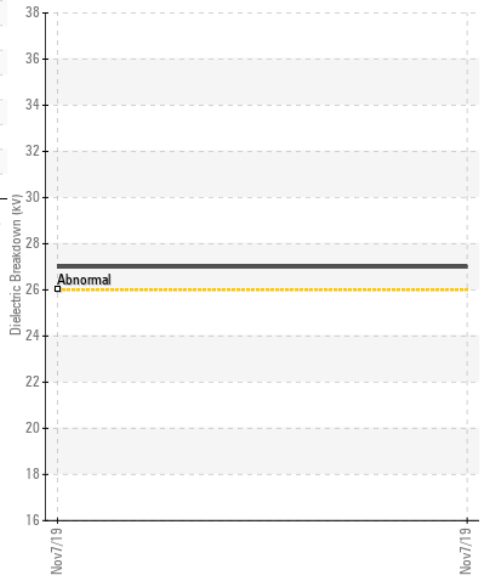
Viscosity @ 40°C



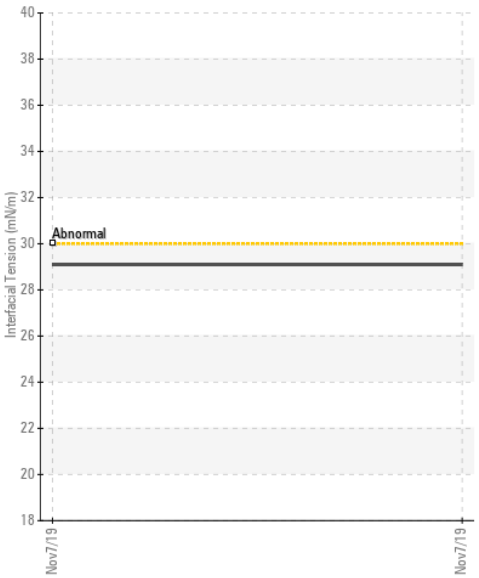
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

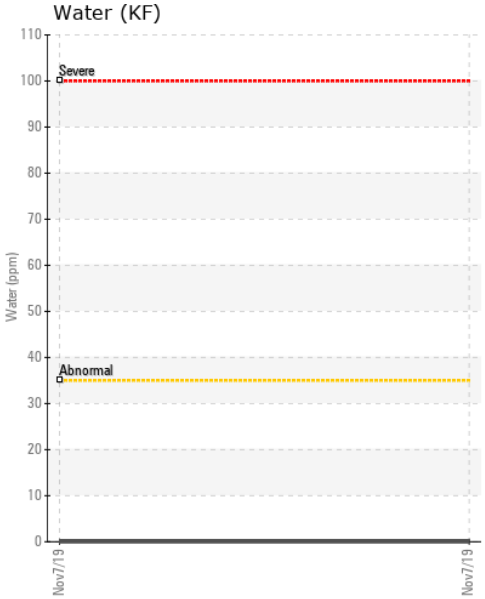
Dielectric BDV



Interfacial Tension



Water (KF)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX05237104 **Received** : 23 Apr 2021
Lab Number : 05237104 **Diagnosed** : 02 Oct 2023
Unique Number : 9476012 **Diagnostician** : System
Test Package : TRF 2 (Additional Tests: ICP, KV40)

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)

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