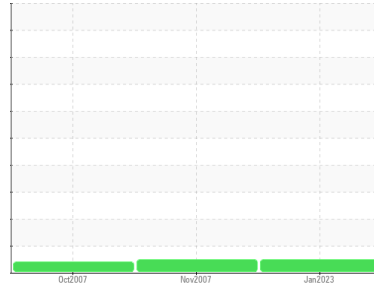




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
PINNACLES
 Machine Id
GE GENERATOR UNIT 3
 Component
Thrust Bearing
 Fluid
SHELL TURBO T ISO 68 (9 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0774903	WCM2057236	ANM2057172
Sample Date	Client Info			06 Jan 2023	08 Nov 2007	31 Oct 2007
Machine Age	hrs	Client Info		1717756	8076	0
Oil Age	hrs	Client Info		1717756	8076	8076
Oil Changed	Client Info			Not Chngd	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	<1	2	1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	<1	<1	<1
Lead	ppm	ASTM D5185m	>60	0	2	0
Copper	ppm	ASTM D5185m	>7	0	<1	<1
Tin	ppm	ASTM D5185m	>40	<1	8	0
Antimony	ppm	ASTM D5185m		---	3	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	<1	<1
Phosphorus	ppm	ASTM D5185m		21	20	5
Zinc	ppm	ASTM D5185m		0	13	12
Sulfur	ppm	ASTM D5185m		0	100	44

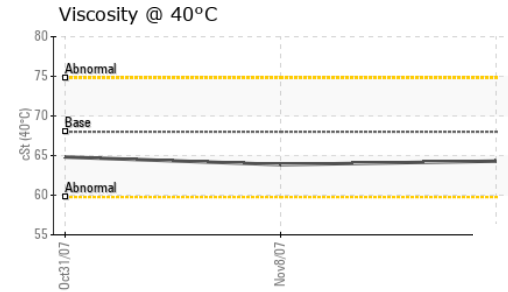
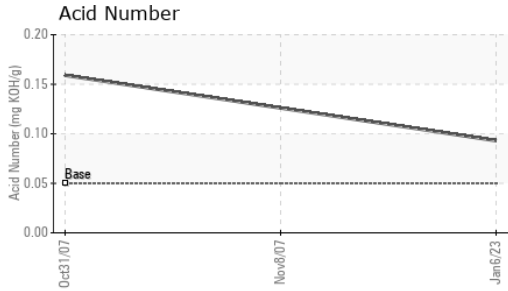
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	0	3	3
Sodium	ppm	ASTM D5185m		0	1	<1
Potassium	ppm	ASTM D5185m	>20	0	15	3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.05	0.093	0.126	0.159

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT

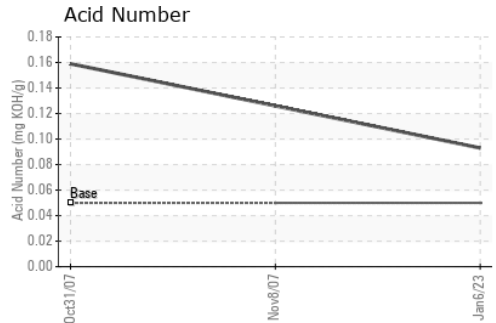
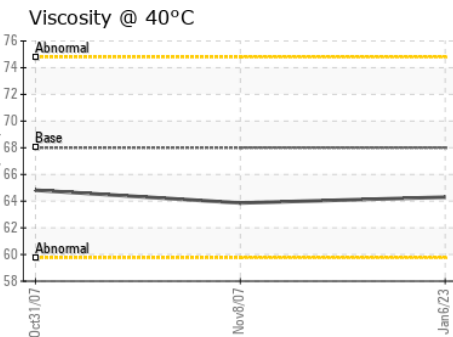
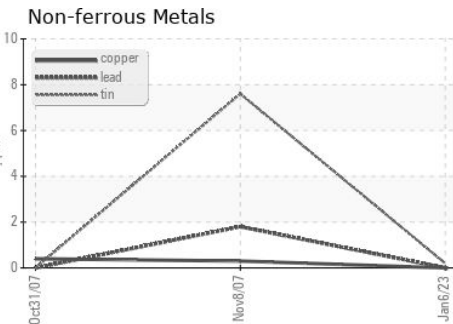
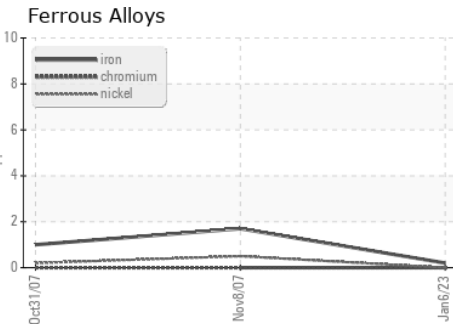


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	64.3	63.86	64.82

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0774903 **Received** : 11 Jan 2023
Lab Number : 05736280 **Diagnosed** : 12 Jan 2023
Unique Number : 10285878 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FilterPatch, PrtCount)

NORTHBROOK VA HYDRO LLC
 6211 KIBLER VALLEY ROAD
 ARARAT, VA
 US 24053
 Contact: PHIL SLATE
 pslate@nbenergy.com
 T: (276)251-5141
 F: (276)251-1255

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)