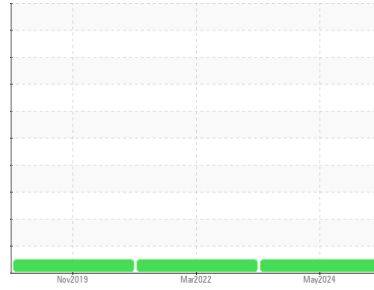




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

GENEV

Machine Id

ZF 20035709 - INBOARD

Component

Port Gearbox

Fluid

SHELL ROTELLA T 30 (2 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			WC0839377	WC0563112	VPA020444
Sample Date	Client Info			22 May 2024	10 Mar 2022	26 Nov 2019
Machine Age	hrs	Client Info		1096	918	779
Oil Age	hrs	Client Info		300	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	57	45	89
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>5	20	42	103
Lead	ppm	ASTM D5185m	>65	81	138	338
Copper	ppm	ASTM D5185m	>80	155	286	291
Tin	ppm	ASTM D5185m	>8	<1	2	2
Antimony	ppm	ASTM D5185m	>5	---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	1
Cadmium	ppm	ASTM D5185m		0	<1	<1

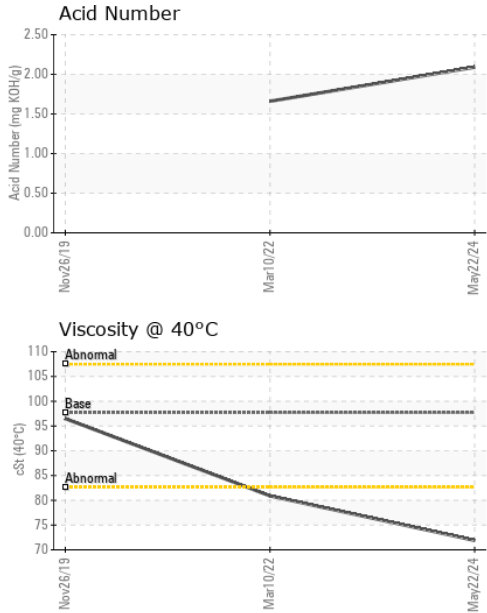
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	102	55	50
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m	0	56	78	52
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		551	366	453
Calcium	ppm	ASTM D5185m	1890	1301	1861	1594
Phosphorus	ppm	ASTM D5185m	680	764	947	874
Zinc	ppm	ASTM D5185m	750	862	1030	915
Sulfur	ppm	ASTM D5185m		3515	2991	2683

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	6	8
Sodium	ppm	ASTM D5185m		1	<1	1
Potassium	ppm	ASTM D5185m	>20	1	3	6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.09	1.66	---



OIL ANALYSIS REPORT



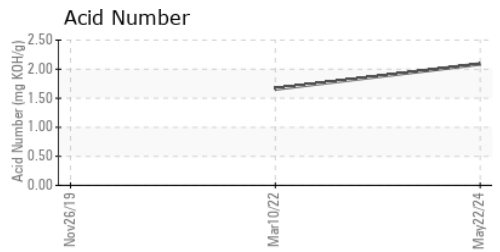
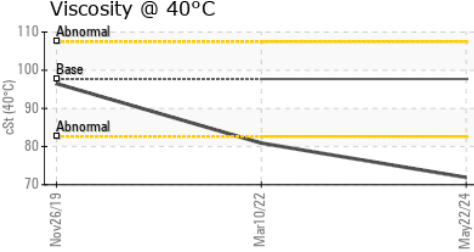
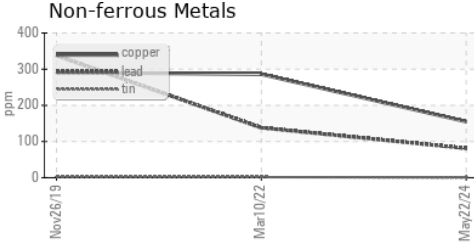
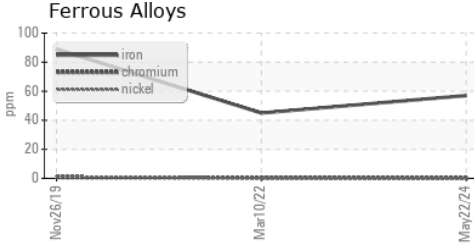
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97.7	71.9	80.9

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0839377 **Received** : 30 May 2024
Lab Number : 06195990 **Tested** : 02 Jun 2024
Unique Number : 11058113 **Diagnosed** : 02 Jun 2024 - Don Baldrige
Test Package : MAR 2

G&G TECHNOLOGIES
 6 GRANDVIEW ST
 COVENTRY, RI
 US 02816
 Contact: GENKO GENEV
 g2@ggtechnologies.com
 T: (401)295-4000
 F:

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)