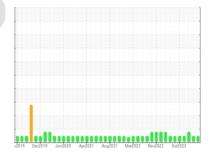


# **OIL ANALYSIS REPORT**

**GFM CHUCKHEAD A RESERVOIR** 

Gearbox

**ROYAL PURPLE SYNERGY 140/680 (220 GAL)** 



Sample Rating Trend



## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

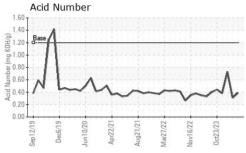
# **Fluid Condition**

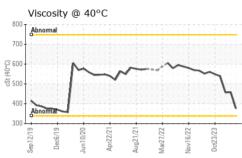
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936976	WC0905605	WC0905626
Sample Date		Client Info		17 Jun 2024	09 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	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	>200	81	59	50
Chromium	ppm	ASTM D5185m	>15	<1	1	<1
Nickel	ppm	ASTM D5185m	>15	0	2	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	2
Lead	ppm	ASTM D5185m	>100	0	1	0
Copper	ppm	ASTM D5185m	>200	114	138	<u>△</u> 254
Tin	ppm	ASTM D5185m	>25	3	7	12
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
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	<1	0
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		39	52	87
Calcium	ppm	ASTM D5185m	34	13	12	0
Phosphorus	ppm	ASTM D5185m	200	145	97	121
Zinc	ppm	ASTM D5185m		195	138	213
Sulfur	ppm	ASTM D5185m		18484	17378	24490
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	8
Sodium	ppm	ASTM D5185m		<1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	0.389	0.31	0.73



# **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	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	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2

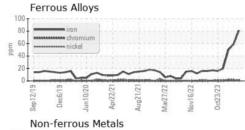
Visc @ 40°C cSt ASTM D445 376 458 457 SAMPLE IMAGES

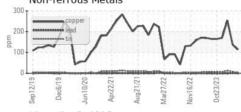
Color

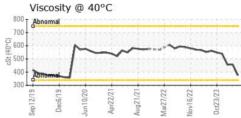
**Bottom** 

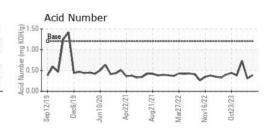


## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WC0936976 Lab Number : 06213619

Unique Number : 11086483 Test Package : IND 2

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed

: 24 Jun 2024 - Jonathan Hester

US 28110 Contact: MIKE TODD mike.todd@atimetals.com

3750 ALLOY WAY

MONROE, NC

**ALLVAC SAF CONDITIONING** 

\* - 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: