



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**8WM/TH/JPBD**  
 Component  
**Gearbox**  
 Fluid  
**ROYAL PURPLE SYNFILM GT 320 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0807528</b>	WC0695186	WC0695027
Sample Date		Client Info		<b>19 Mar 2024</b>	28 Oct 2023	28 Mar 2023
Machine Age	hrs	Client Info		<b>0</b>	0	30536
Oil Age	hrs	Client Info		<b>37287</b>	33883	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>6</b>	4	10
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	4
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	<1	4
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

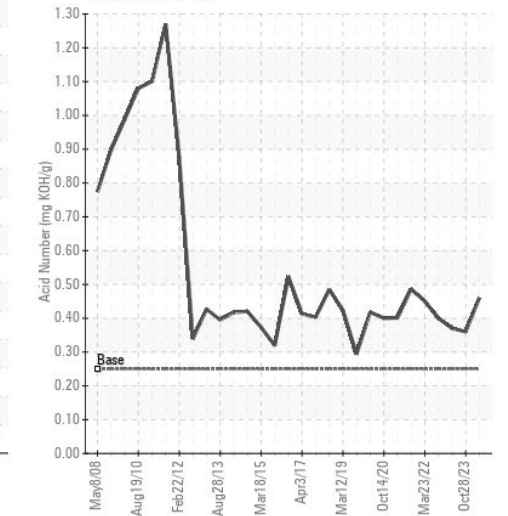
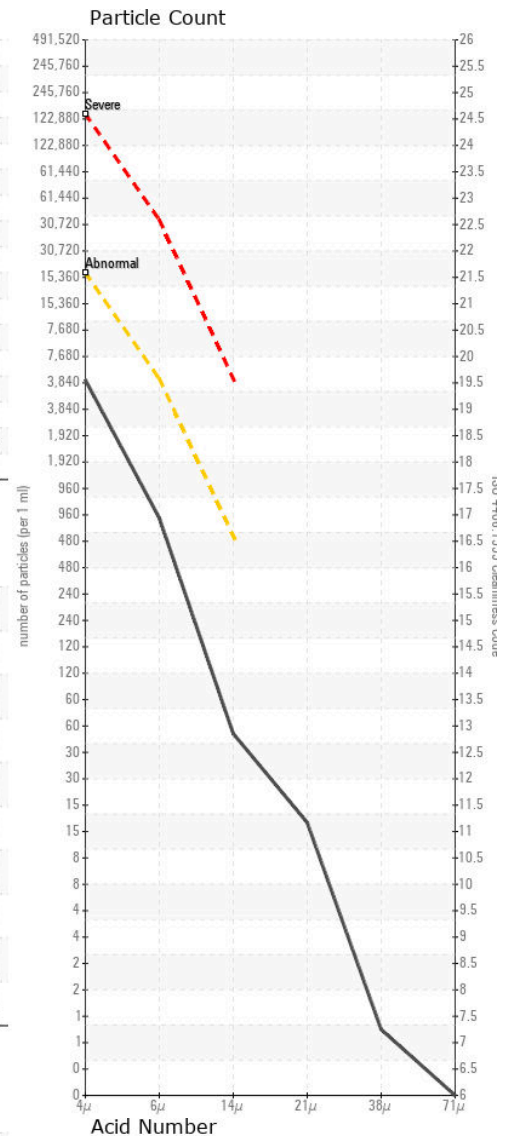
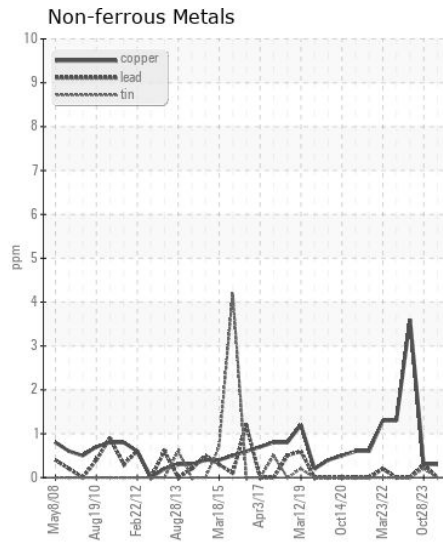
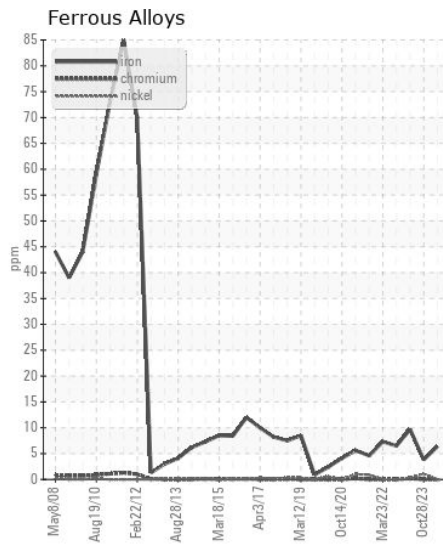
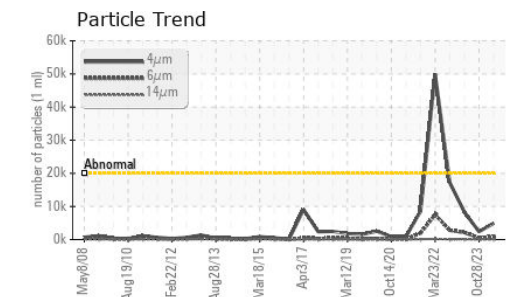
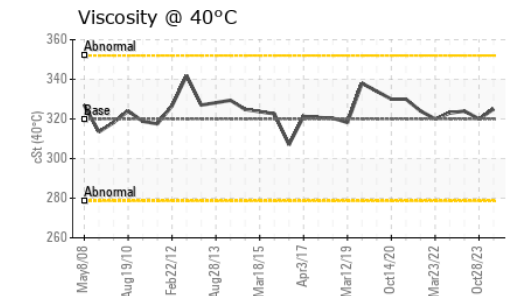
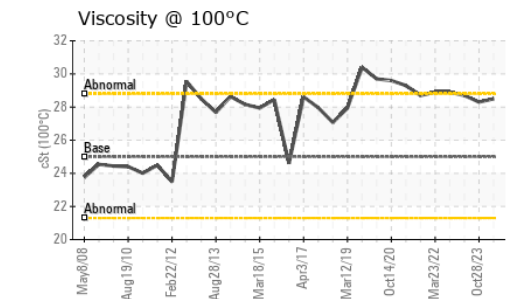
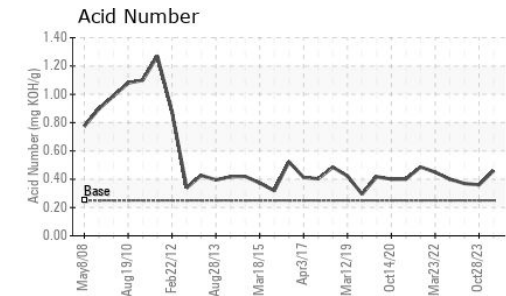
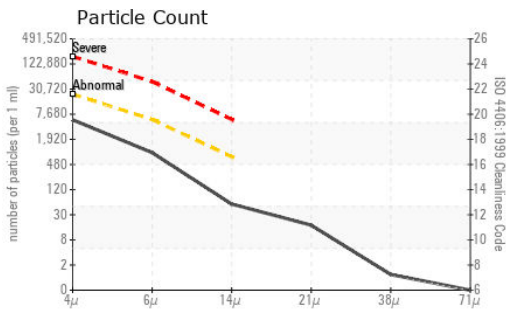
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	1
Water	%	ASTM D6304	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>4921</b>	2380	8296
Particles >6µm		ASTM D7647	>5000	<b>808</b>	568	2150
Particles >14µm		ASTM D7647	>640	<b>48</b>	39	120
Particles >21µm		ASTM D7647	>160	<b>15</b>	10	27
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/17/13</b>	18/16/12	20/18/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	1	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	90	<b>16</b>	19	40
Calcium	ppm	ASTM D5185m		<b>0</b>	2	0
Phosphorus	ppm	ASTM D5185m		<b>5</b>	<1	0
Zinc	ppm	ASTM D5185m		<b>7</b>	0	6
Sulfur	ppm	ASTM D5185m		<b>21394</b>	18176	24170
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	<b>0.46</b>	0.36	0.37
Visc @ 40°C	cSt	ASTM D445	320	<b>325</b>	320	324
Visc @ 100°C	cSt	ASTM D445	25	<b>28.5</b>	28.3	28.7
Viscosity Index (VI)	Scale	ASTM D2270	100	<b>118</b>	119	120



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0807528 **Received** : 24 Apr 2024  
**Lab Number** : 06159097 **Tested** : 26 Apr 2024  
**Unique Number** : 10994520 **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: KV100, VI )

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)

JPHYTEC

JP  
 Contact: Service

T:  
 F: