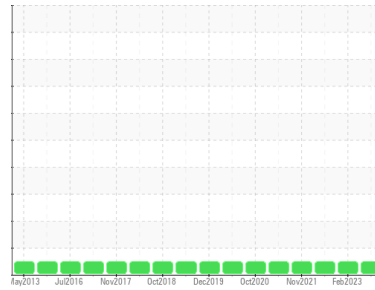




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
HY/8WM

Component
Gearbox

Fluid
ROYAL PURPLE SYNFILM GT 320 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. 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	WC0695206	WC0695073	WC0407157
Sample Date	Client Info	29 Sep 2023	06 Feb 2023	07 Sep 2022
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	36360	30720	27072
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	5	8	4
Chromium ppm ASTM D5185m	>15	<1	0	0
Nickel ppm ASTM D5185m	>15	<1	0	0
Titanium ppm ASTM D5185m		<1	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>25	2	0	0
Lead ppm ASTM D5185m	>100	<1	0	0
Copper ppm ASTM D5185m	>200	2	1	2
Tin ppm ASTM D5185m	>25	<1	0	0
Vanadium ppm ASTM D5185m		<1	0	0
Cadmium ppm ASTM D5185m		<1	0	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	0	0
Manganese ppm ASTM D5185m		<1	<1	<1
Magnesium ppm ASTM D5185m	90	13	41	26
Calcium ppm ASTM D5185m		<1	0	<1
Phosphorus ppm ASTM D5185m		20	15	55
Zinc ppm ASTM D5185m		2	0	6
Sulfur ppm ASTM D5185m		18329	19828	20983

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	3	1	1
Sodium ppm ASTM D5185m		0	2	1
Potassium ppm ASTM D5185m	>20	2	<1	0
Water % ASTM D6304	>0.2	NEG	NEG	NEG

FLUID CLEANLINESS

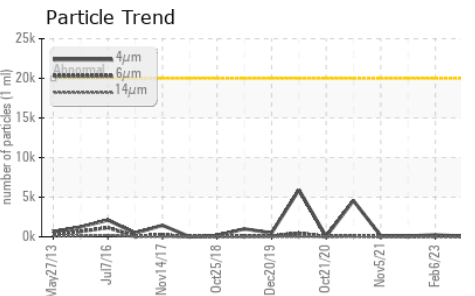
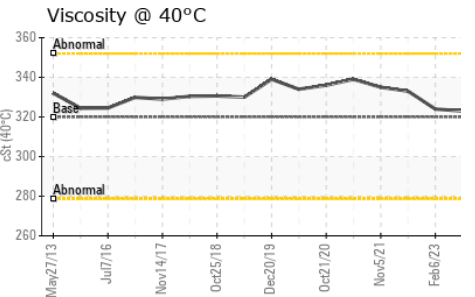
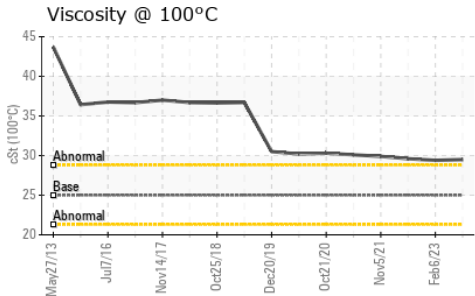
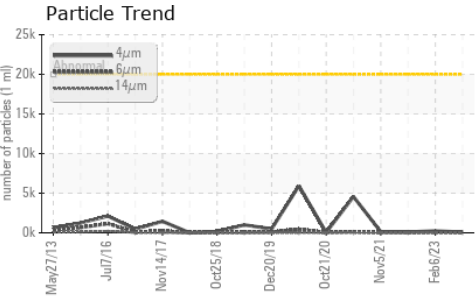
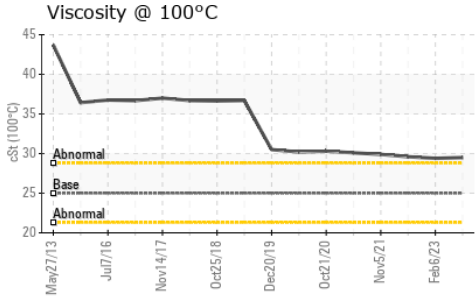
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	90	236	105
Particles >6µm ASTM D7647	>5000	30	56	17
Particles >14µm ASTM D7647	>640	4	8	3
Particles >21µm ASTM D7647	>160	2	3	0
Particles >38µm ASTM D7647	>40	0	0	0
Particles >71µm ASTM D7647	>10	0	0	0
Oil Cleanliness ISO 4406 (c)	>21/19/16	14/12/9	15/13/10	14/11/9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.25	0.43	0.42	0.41



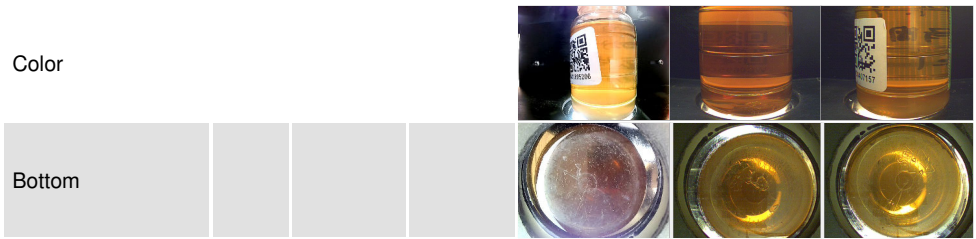
OIL ANALYSIS REPORT



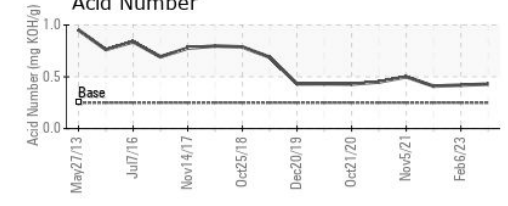
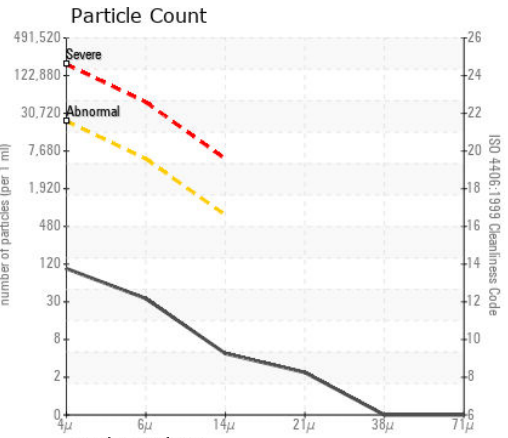
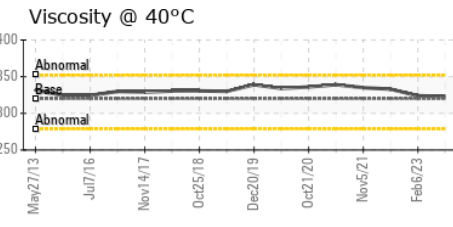
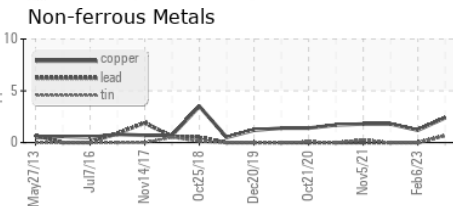
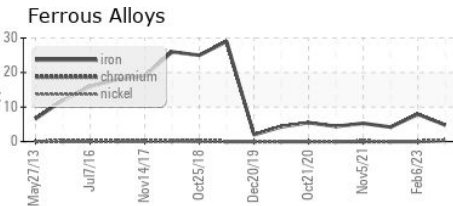
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	320	324	333
Visc @ 100°C	cSt	ASTM D445	25	29.4	29.6
Viscosity Index (VI)	Scale	ASTM D2270	100	124	122

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0695206 **Received** : 05 Apr 2024
Lab Number : 06139790 **Tested** : 08 Apr 2024
Unique Number : 10964598 **Diagnosed** : 08 Apr 2024 - Don Baldrige
Test Package : PLANT (Additional Tests: KV100, VI)

JPHYTEC

JP
Contact: Service

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)

T:
F: