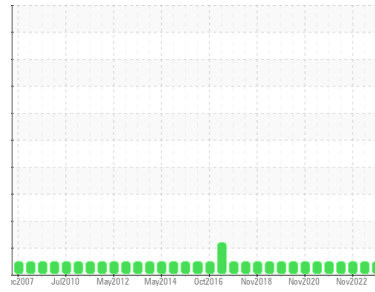




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
5WM/KM/JPBD

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		WC0932128	WC0807329	WC0695103
Sample Date	Client Info		24 Jun 2024	16 Nov 2023	10 Nov 2022
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	17	10	2688
Oil Changed	Client Info		N/A	N/A	N/A
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 >200	8	7	6
Chromium	ppm	ASTM D5185m >15	0	0	0
Nickel	ppm	ASTM D5185m >15	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	1
Aluminum	ppm	ASTM D5185m >25	0	<1	1
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	2	2	3
Tin	ppm	ASTM D5185m >25	0	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 90	16	34	38
Calcium	ppm	ASTM D5185m	2	0	<1
Phosphorus	ppm	ASTM D5185m	16	15	22
Zinc	ppm	ASTM D5185m	3	0	2
Sulfur	ppm	ASTM D5185m	19715	17837	18617

CONTAMINANTS

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

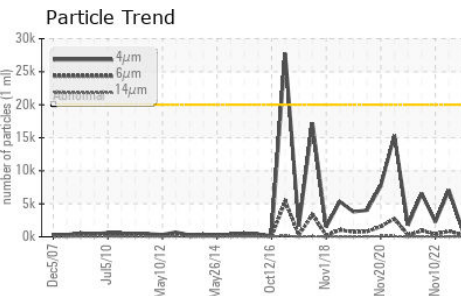
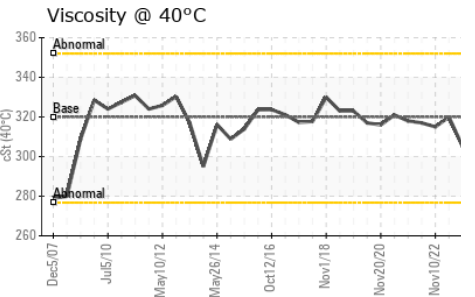
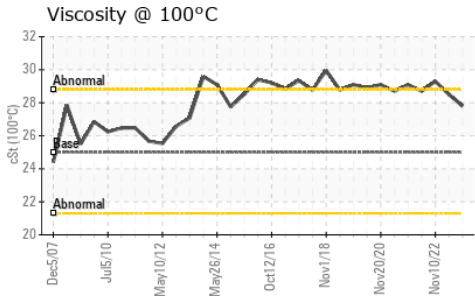
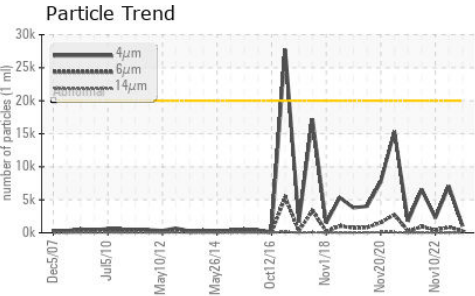
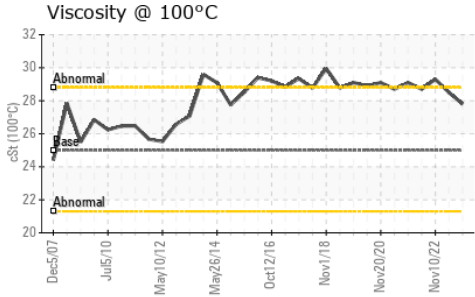
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	1012	7070	2230
Particles >6µm	ASTM D7647	>5000	267	859	407
Particles >14µm	ASTM D7647	>640	27	23	12
Particles >21µm	ASTM D7647	>160	5	3	2
Particles >38µm	ASTM D7647	>40	0	0	1
Particles >71µm	ASTM D7647	>10	0	0	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	17/15/12	20/17/12	18/16/11

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.25	0.22	0.28	0.25

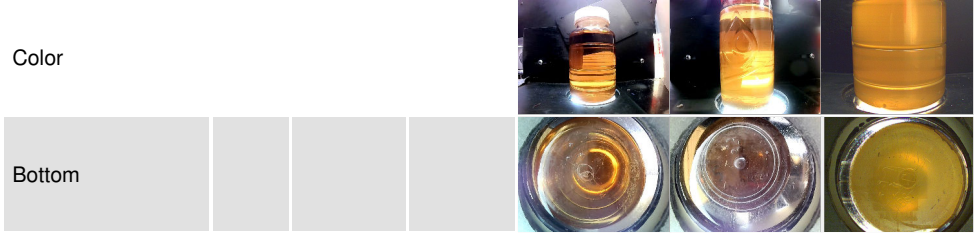
OIL ANALYSIS REPORT



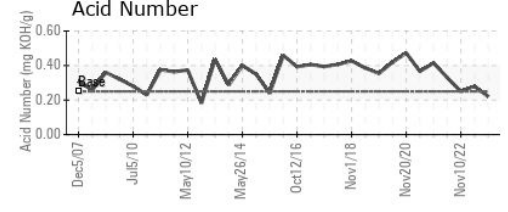
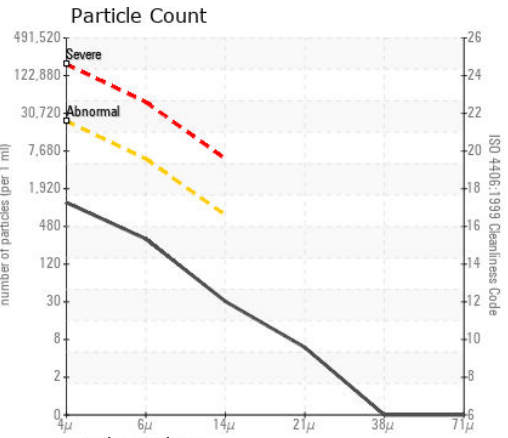
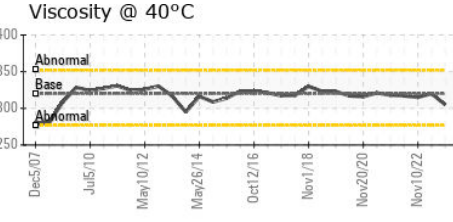
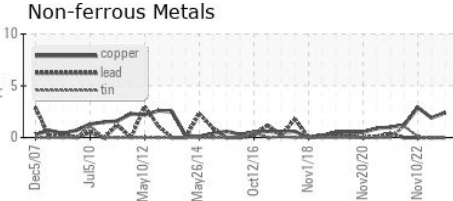
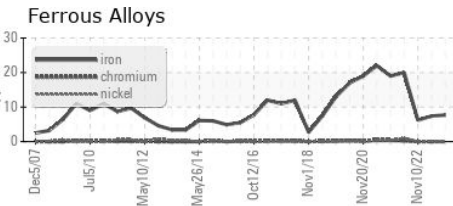
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	305	320
Visc @ 100°C	cSt	ASTM D445	25	27.8	28.5
Viscosity Index (VI)	Scale	ASTM D2270	100	121	120

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0932128 **Received** : 12 Jul 2024
Lab Number : 06234882 **Tested** : 15 Jul 2024
Unique Number : 11123716 **Diagnosed** : 15 Jul 2024 - Don Baldrige
Test Package : PLANT (Additional Tests: KV100, VI)

JPHYTEC

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)

JP
 Contact: Service

T:
F: