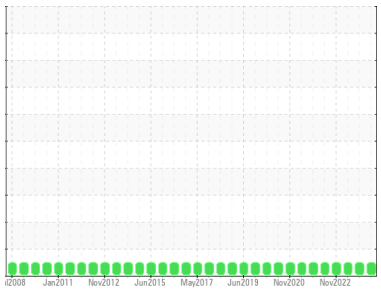
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
3WM/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		**WC0932126**	WC0807331	WC0807308
Sample Date		Client Info		**27 Jun 2024**	24 Nov 2023	25 May 2023
Machine Age	mths	Client Info		**0**	0	39
Oil Age	mths	Client Info		**54**	47	0
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	**18**	17	21
Chromium	ppm	ASTM D5185m	>15	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	0	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**<1**	0	0
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

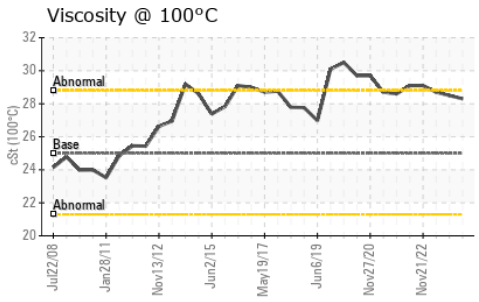
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	90	**25**	49	55
Calcium	ppm	ASTM D5185m		**1**	0	2
Phosphorus	ppm	ASTM D5185m		**2**	1	2
Zinc	ppm	ASTM D5185m		**3**	0	0
Sulfur	ppm	ASTM D5185m		**20695**	18626	22971

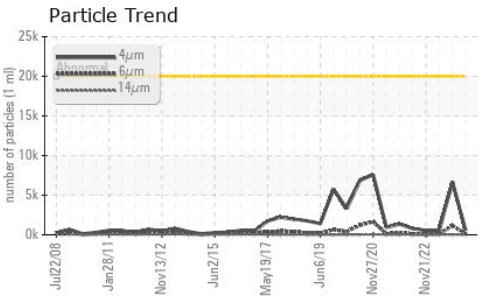
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**<1**	<1	0
Sodium	ppm	ASTM D5185m		**6**	5	4
Potassium	ppm	ASTM D5185m	>20	**0**	2	1

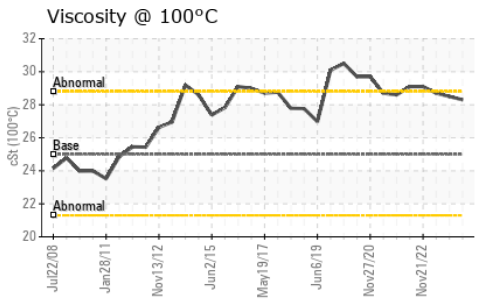
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**550**	6659	512
Particles >6µm		ASTM D7647	>5000	**136**	1157	123
Particles >14µm		ASTM D7647	>640	**15**	37	10
Particles >21µm		ASTM D7647	>160	**4**	7	2
Particles >38µm		ASTM D7647	>40	**0**	0	0
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**16/14/11**	20/17/12	16/14/10

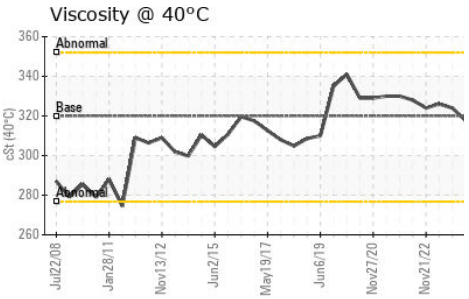
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	**0.42**	0.41	0.46

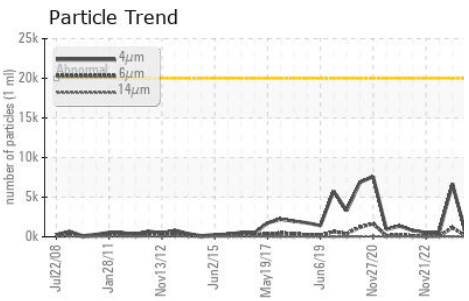
OIL ANALYSIS REPORT









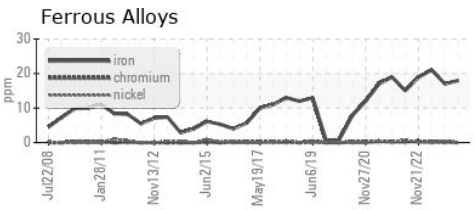


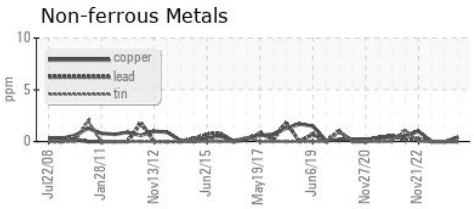
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

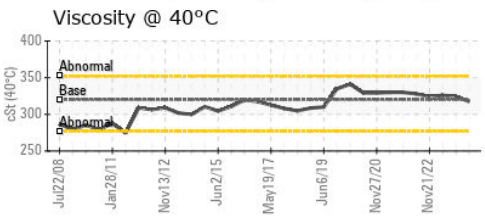
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	**317.6**	324	326
Visc @ 100°C	cSt	ASTM D445	25	**28.3**	28.5	28.7
Viscosity Index (VI)	Scale	ASTM D2270	100	**120**	119	119

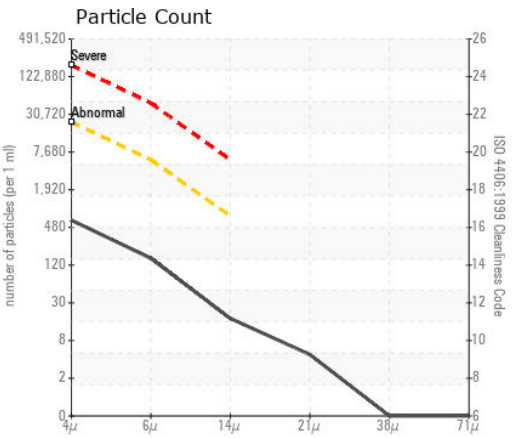
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

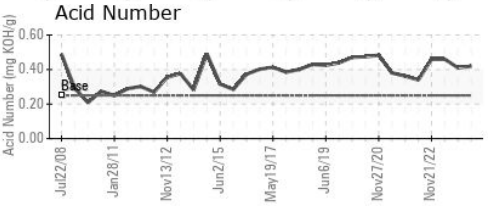
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JPHYTEC**
Sample No. : WC0932126 **Received** : 12 Jul 2024
Lab Number : 06234887 **Tested** : 16 Jul 2024 ,
Unique Number : 11123721 **Diagnosed** : 16 Jul 2024 - Sean Felton JP
Test Package : PLANT (Additional Tests: KV100, VI) Contact: Service

Certificate L2367

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.* T:
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: