OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2WM/TH/JPBD
Component
Gearbox
Fluid
ROYAL PURPLE SYNFILM GT 320 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

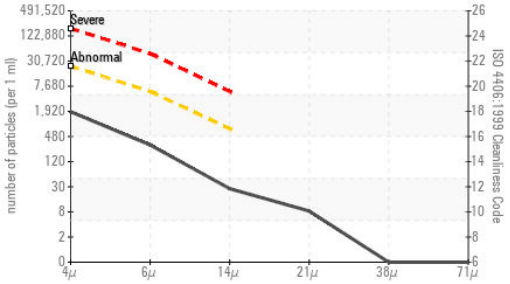
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

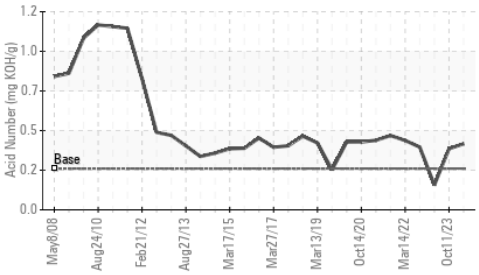
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0807523**	WC0695302	WC0695022
Sample Date		Client Info		**15 Mar 2024**	11 Oct 2023	14 Mar 2023
Machine Age	hrs	Client Info		**0**	0	29914
Oil Age	hrs	Client Info		**37524**	33807	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	**19**	12	19
Chromium	ppm	ASTM D5185m	>15	**0**	0	<1
Nickel	ppm	ASTM D5185m	>15	**0**	1	0
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**	<1	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	1
Tin	ppm	ASTM D5185m	>25	**0**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	**0**	1	0
Potassium	ppm	ASTM D5185m	>20	**0**	1	0
Water	%	ASTM D6304	>0.2	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>20000	**1648**	753	1955
Particles >6µm		ASTM D7647	>5000	**264**	153	323
Particles >14µm		ASTM D7647	>640	**24**	9	22
Particles >21µm		ASTM D7647	>160	**7**	3	5
Particles >38µm		ASTM D7647	>40	**0**	1	0
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**18/15/12**	17/14/10	18/16/12
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
Sodium	ppm	ASTM D5185m		**2**	1	2
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		**0**	<1	1
Magnesium	ppm	ASTM D5185m	90	**13**	15	31
Calcium	ppm	ASTM D5185m		**0**	2	0
Phosphorus	ppm	ASTM D5185m		**0**	<1	0
Zinc	ppm	ASTM D5185m		**6**	0	3
Sulfur	ppm	ASTM D5185m		**21631**	18289	22531
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	**0.40**	0.37	0.15
Visc @ 40°C	cSt	ASTM D445	320	**332**	332	327
Visc @ 100°C	cSt	ASTM D445	25	**28.7**	29.2	29.2
Viscosity Index (VI)	Scale	ASTM D2270	100	**117**	120	122

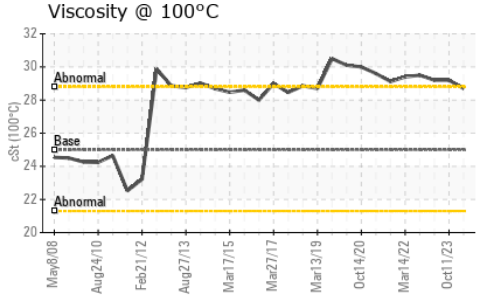
Particle Count



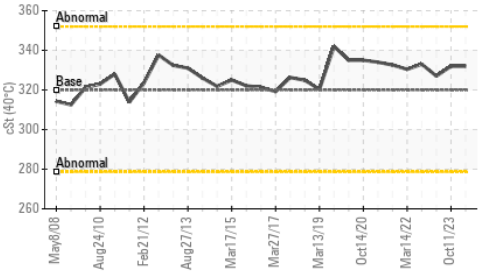
Acid Number



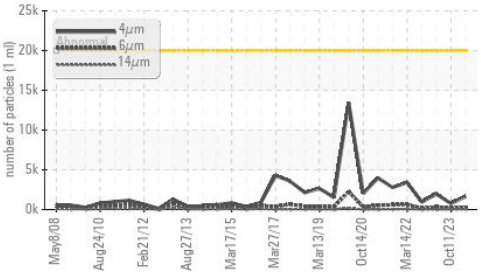
Viscosity @ 100°C



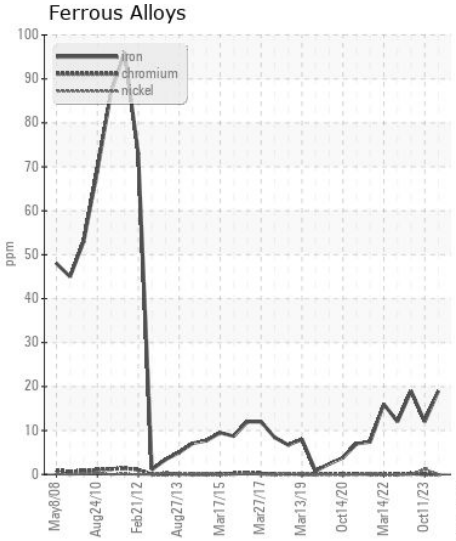
Viscosity @ 40°C



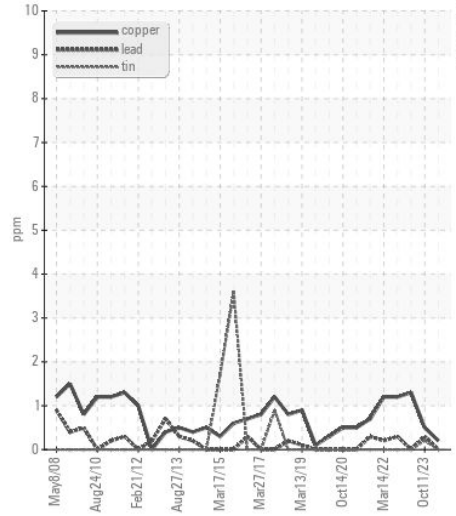
Particle Trend



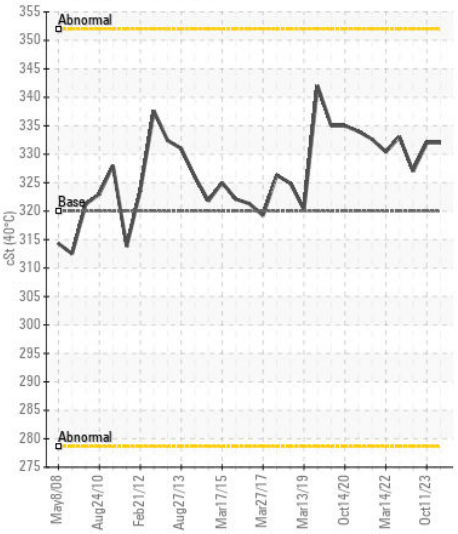
Ferrous Alloys



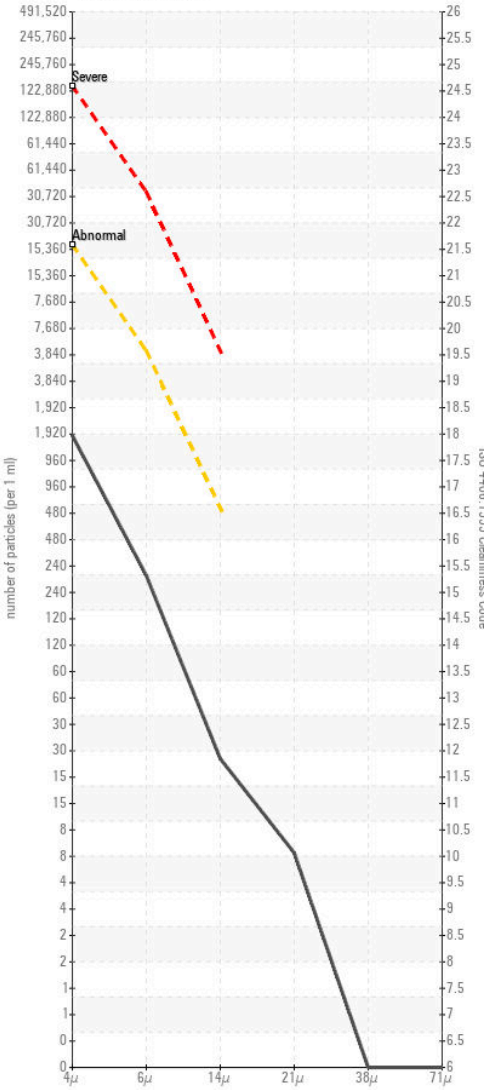
Non-ferrous Metals



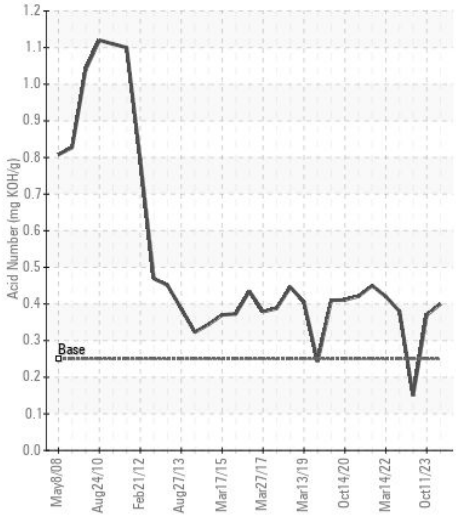
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		**JPHYTEC**
Sample No.	: WC0807523	**Received**	: 24 Apr 2024
Lab Number	: 06159095	**Tested**	: 26 Apr 2024 ,
Unique Number	: 10994518	**Diagnosed**	: 26 Apr 2024 - Jonathan Hester JP
Test Package	: PLANT (Additional Tests: KV100, VI)		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.* T:

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