



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
01Y408 (S/N H13/1627888)
Component
Gearbox
Fluid
ROYAL PURPLE SYNFILM GT 220 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0037761	RP0035974	RP0033440
Sample Date		Client Info		21 Apr 2024	07 Aug 2023	11 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	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				MARGINAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	195	180	158
Chromium	ppm	ASTM D5185m	>15	1	1	1
Nickel	ppm	ASTM D5185m	>15	<1	<1	<1
Titanium	ppm	ASTM D5185m		7	7	6
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	2	3
Lead	ppm	ASTM D5185m	>100	1	2	0
Copper	ppm	ASTM D5185m	>200	1	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

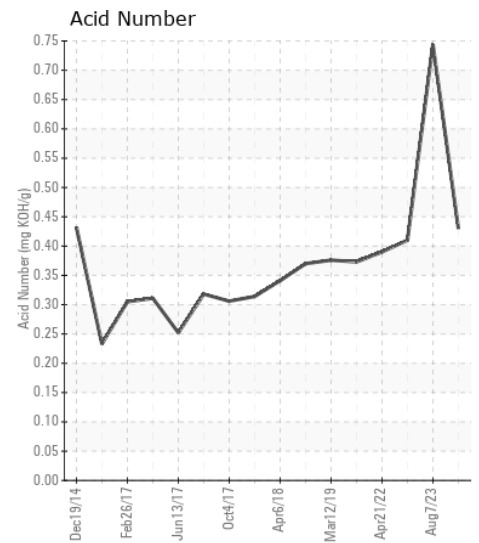
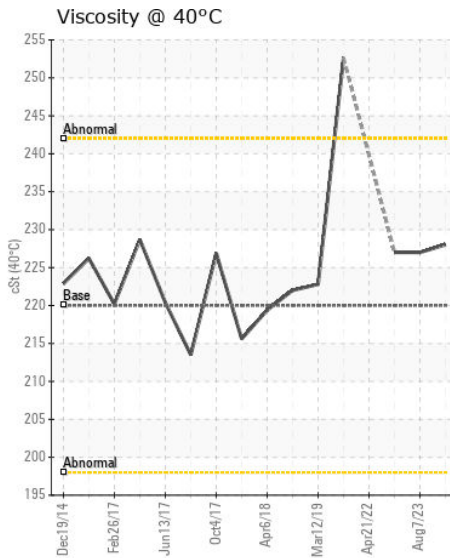
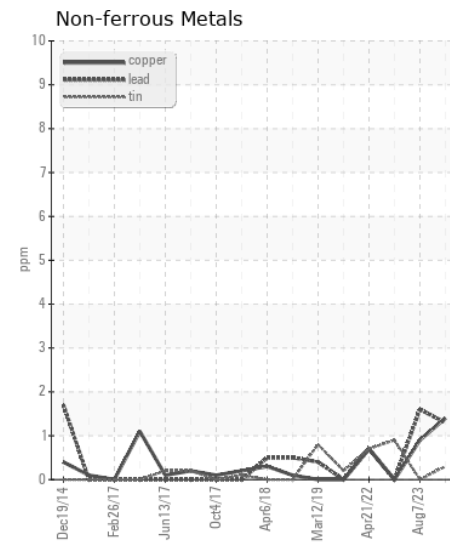
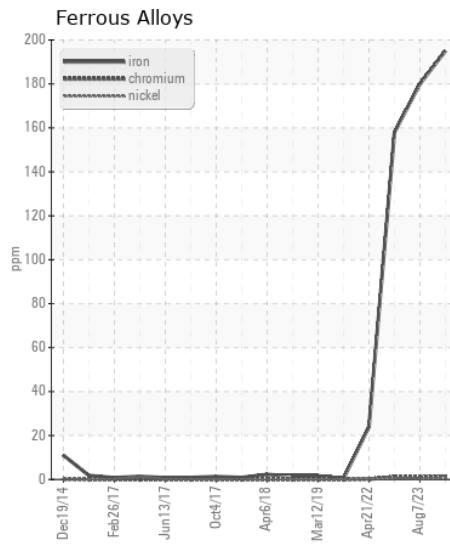
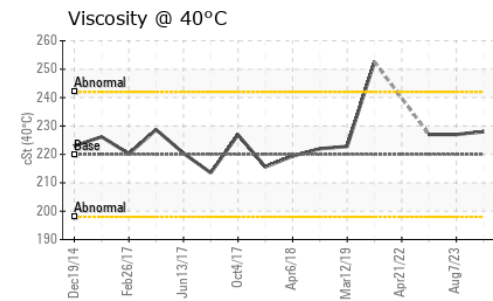
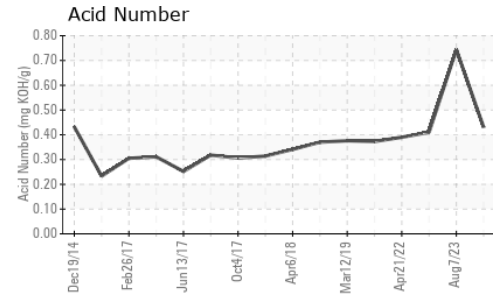
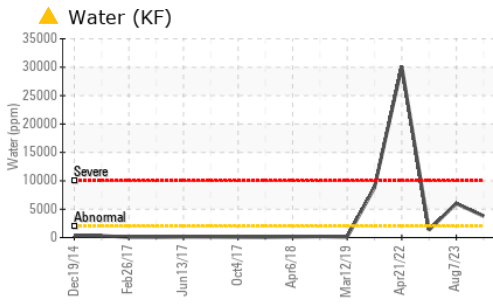
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	6	5	4
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.2	▲ 0.377	▲ 0.601	0.134
ppm Water	ppm	ASTM D6304	>2000	▲ 3770	▲ 6010	1340
Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	0.2%	0.2%	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		7	2	<1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		4	5	5
Magnesium	ppm	ASTM D5185m		8	7	7
Calcium	ppm	ASTM D5185m		26	28	24
Phosphorus	ppm	ASTM D5185m		66	63	72
Zinc	ppm	ASTM D5185m		18	13	0
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.744	0.41
Visc @ 40°C	cSt	ASTM D445	220	228	227	227



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037761
Lab Number : 06156096
Unique Number : 10991519
Test Package : IND 2
Received : 22 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Don Baldrige

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)

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