IND II

ROYAL PURPLE PERFORMANCE UNDER PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
TM 7
Machine Id
TM 7 MACHINE NATURELLE
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

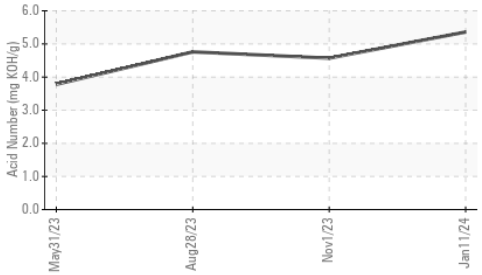
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

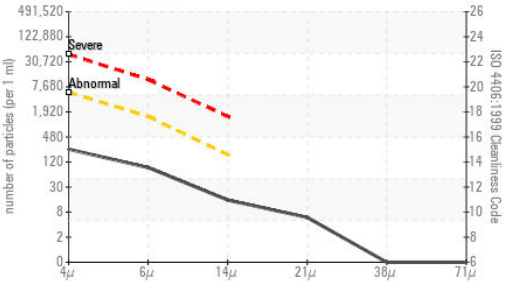
The AN level is above the recommended limit.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**RP0030321**	RP0034385	RP0034363
Sample Date		Client Info		**11 Jan 2024**	01 Nov 2023	28 Aug 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				**ABNORMAL**	ABNORMAL	ABNORMAL
PQ		ASTM D8184		**13**	19	---
Iron	ppm	ASTM D5185m	>20	**<1**	2	2
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**1**	<1	4
Lead	ppm	ASTM D5185m	>20	**<1**	<1	0
Copper	ppm	ASTM D5185m	>20	**8**	8	6
Tin	ppm	ASTM D5185m	>20	**2**	1	1
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	>15	**<1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**<1**	2	0
Water	%	ASTM D6304	>0.05	**0.043**	0.051	0.068
ppm Water	ppm	ASTM D6304	>500	**439**	516.7	685.1
Particles >4µm		ASTM D7647	>5000	**215**	80	463
Particles >6µm		ASTM D7647	>1300	**78**	32	111
Particles >14µm		ASTM D7647	>160	**13**	6	12
Particles >21µm		ASTM D7647	>40	**5**	1	5
Particles >38µm		ASTM D7647	>10	**0**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**15/13/11**	13/12/10	16/14/11
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	>0.05	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**0**	0	0
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**	0	0
Magnesium	ppm	ASTM D5185m		**0**	2	3
Calcium	ppm	ASTM D5185m		**3**	5	3
Phosphorus	ppm	ASTM D5185m		**186**	148	182
Zinc	ppm	ASTM D5185m		**33**	34	25
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **5.36**	▲ 4.57	▲ 4.76
Visc @ 40°C	cSt	ASTM D445		**48.8**	48.2	48.0

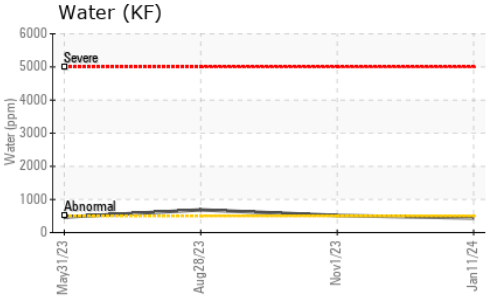
Acid Number



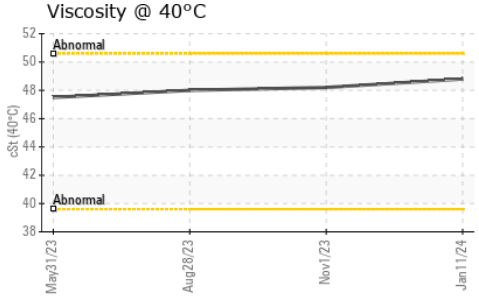
Particle Count



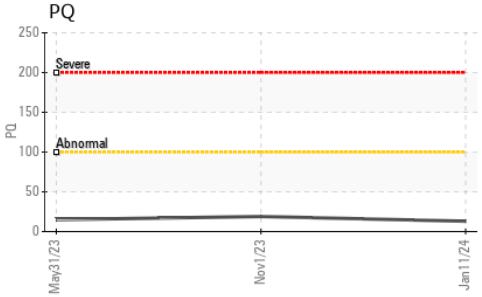
Water (KF)



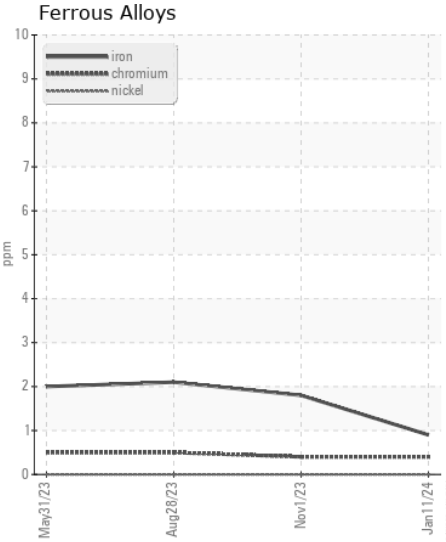
Viscosity @ 40°C



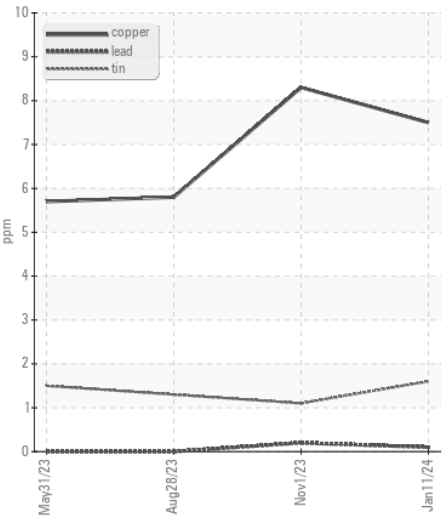
PQ



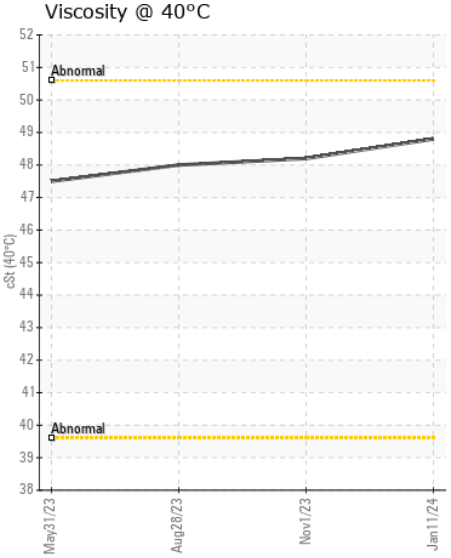
Ferrous Alloys



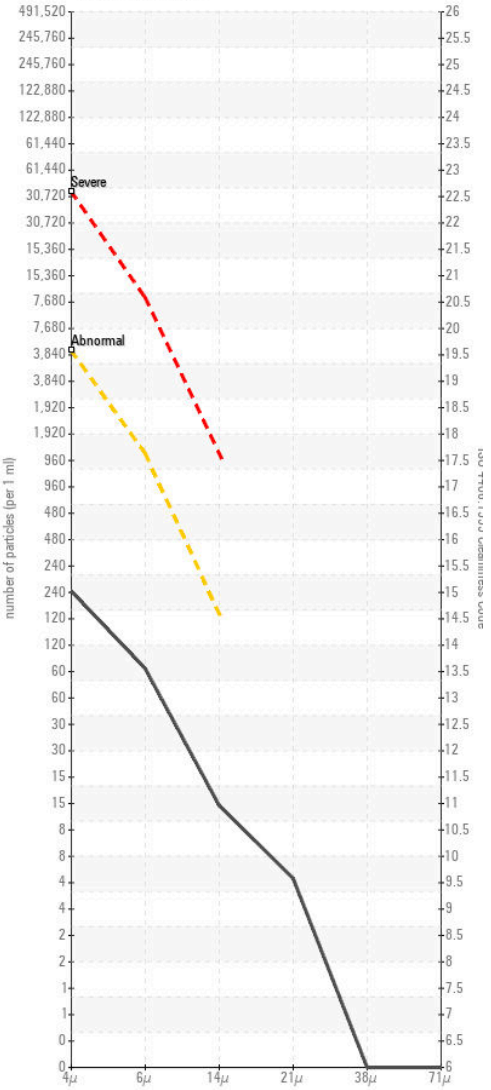
Non-ferrous Metals



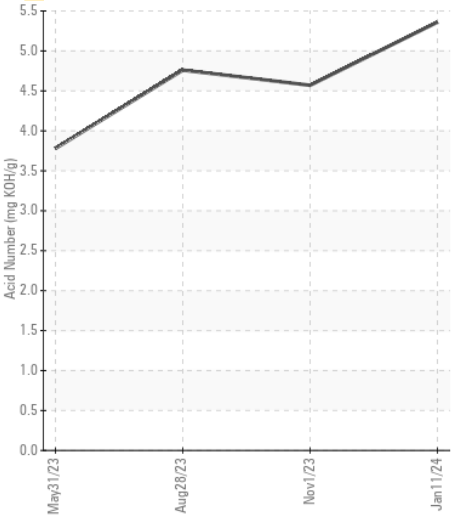
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0030321
Lab Number : 06060330
Unique Number : 10831712
Test Package : IND 2 (Additional Tests: PQ)

Received : 12 Jan 2024
Tested : 16 Jan 2024
Diagnosed : 17 Jan 2024 - Jonathan Hester

Kimberly-Clark - Mobile - TM 7
200 BAYBRIDGE RD
MOBILE, AL
US 36610
Contact: BRAD SNOW
brad.snow@kcc.com
T:
F: (251)452-6335

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)