IND II

ROYAL PURPLE PERFORMANCE UNDER PRESSURE

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
**[66334]**
Machine Id
**66334 (S/N 61022175)**
Component
**Hydraulic System**
Fluid
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

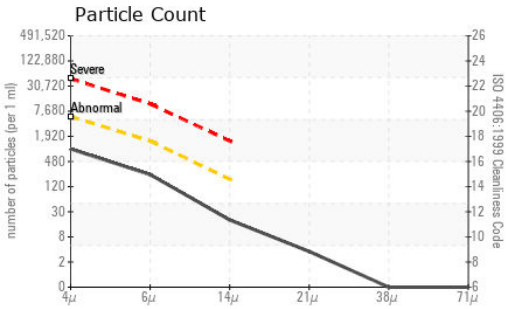
## CONTAMINATION

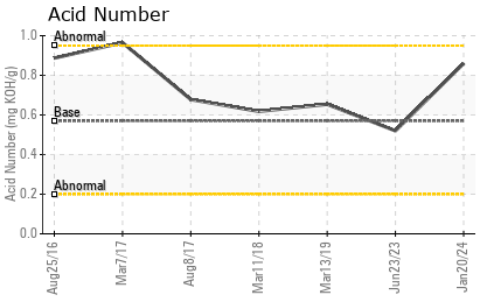
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

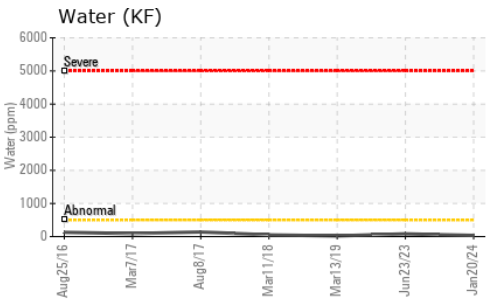
## FLUID CONDITION

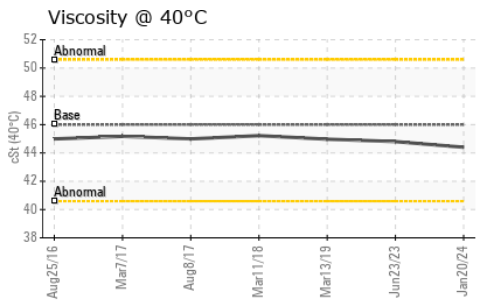
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

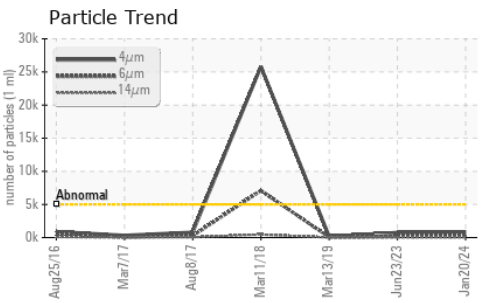
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **RP0030242** | RP0016427 | RP194014 |
| Sample Date | | Client Info | | **20 Jan 2024** | 23 Jun 2023 | 13 Mar 2019 |
| Machine Age | mths | Client Info | | **0** | 0 | 0 |
| Oil Age | mths | Client Info | | **0** | 0 | 0 |
| Filter Age | mths | 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 | >20 | **3** | 1 | 4 |
| Chromium | ppm | ASTM D5185m | >20 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | **0** | 0 | <1 |
| Lead | ppm | ASTM D5185m | >20 | **0** | <1 | <1 |
| Copper | ppm | ASTM D5185m | >20 | **5** | 4 | 4 |
| Tin | ppm | ASTM D5185m | >20 | **2** | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | VLITE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >15 | **<1** | <1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | **0** | 1 | <1 |
| Water | % | ASTM D6304 | >0.05 | **0.003** | 0.008 | 0.002 |
| ppm Water | ppm | ASTM D6304 | >500 | **34** | 82.6 | 20 |
| Particles >4µm | | ASTM D7647 | >5000 | **842** | 765 | 177 |
| Particles >6µm | | ASTM D7647 | >1300 | **205** | 182 | 59 |
| Particles >14µm | | ASTM D7647 | >160 | **17** | 11 | 8 |
| Particles >21µm | | ASTM D7647 | >40 | **3** | 2 | 2 |
| Particles >38µm | | ASTM D7647 | >10 | **0** | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | **17/15/11** | 17/15/11 | 15/13/10 |
| 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 | | **2** | 0 | 2 |
| Boron | ppm | ASTM D5185m | 5 | **0** | 0 | <1 |
| Barium | ppm | ASTM D5185m | 5 | **0** | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m | 5 | **<1** | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | **0** | 2 | 5 |
| Calcium | ppm | ASTM D5185m | 200 | **72** | 51 | 118 |
| Phosphorus | ppm | ASTM D5185m | 300 | **404** | 382 | 417 |
| Zinc | ppm | ASTM D5185m | 370 | **543** | 509 | 569 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | **0.86** | 0.52 | 0.654 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | **44.4** | 44.8 | 44.97 |

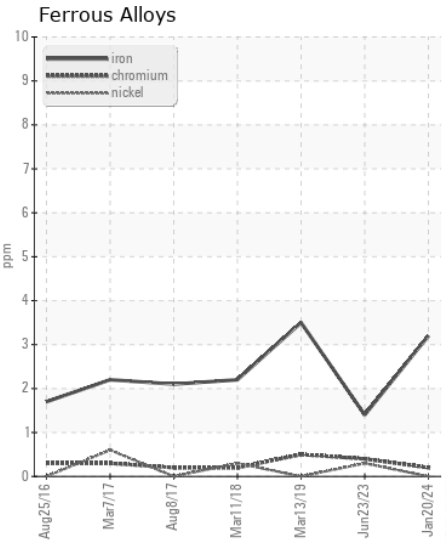


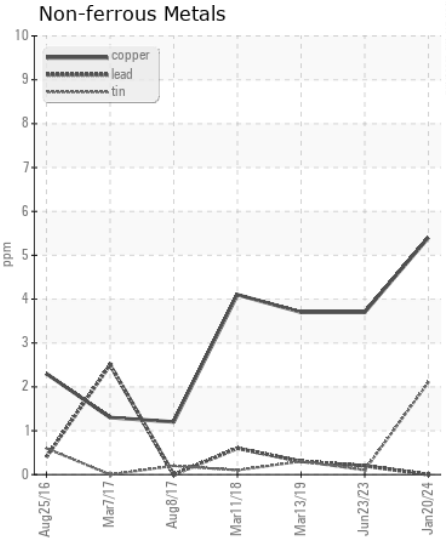



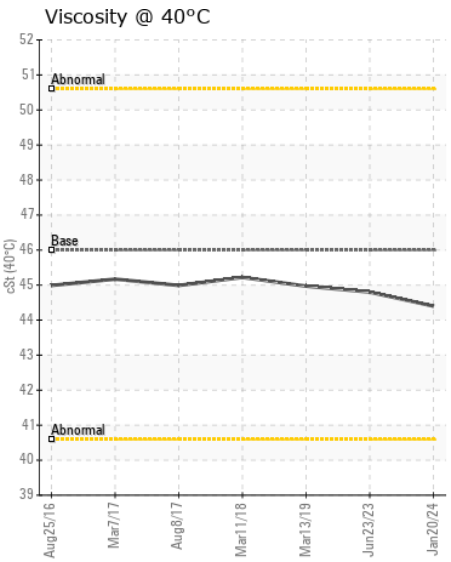



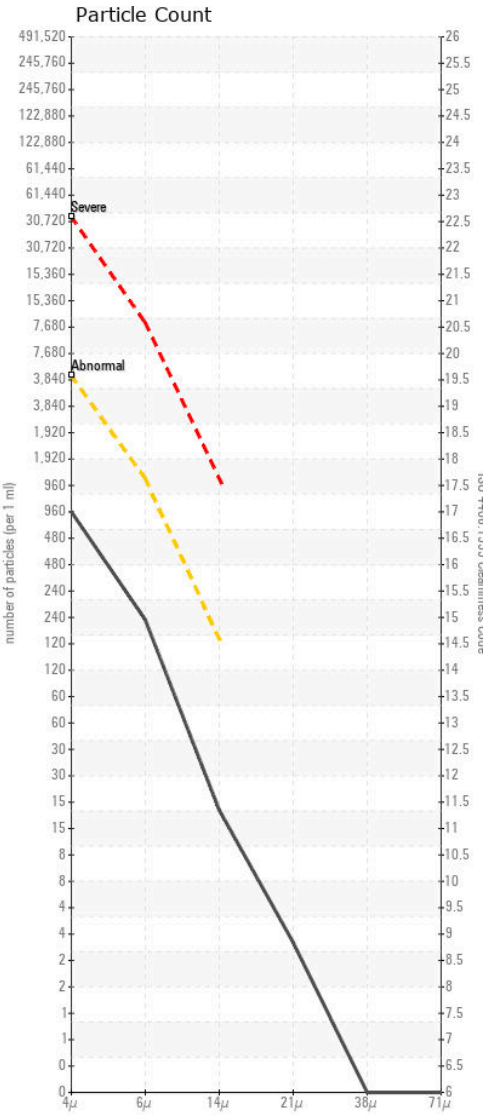



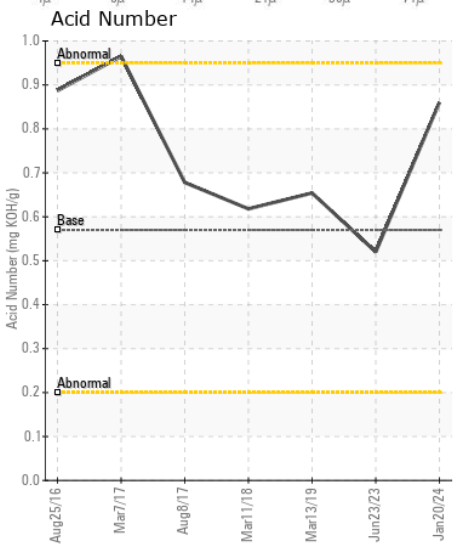




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : RP0030242
**Lab Number** : 06124934
**Unique Number** : 10939085
**Test Package** : IND 2

**Received** : 21 Mar 2024
**Tested** : 22 Mar 2024
**Diagnosed** : 22 Mar 2024 - Wes Davis

*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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