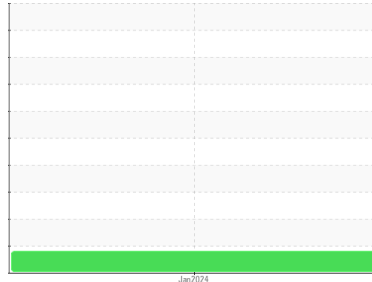


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
CAROUSEL
Component
Gearbox
Fluid
HO 320 (--- GAL)

DIAGNOSIS

- 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.
- Fluid Condition**
Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | TO60001521 | --- | --- |
| Sample Date | Client Info | 17 Jan 2024 | --- | --- |
| Machine Age | hrs Client Info | 0 | --- | --- |
| Oil Age | hrs Client Info | 0 | --- | --- |
| Oil Changed | Client Info | Not Changed | --- | --- |
| Sample Status | | ATTENTION | --- | --- |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.2 | NEG | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| PQ | ASTM D8184 | 40 | --- | --- |
| Iron | ppm ASTM D5185m >200 | 39 | --- | --- |
| Chromium | ppm ASTM D5185m >15 | 0 | --- | --- |
| Nickel | ppm ASTM D5185m >15 | 0 | --- | --- |
| Titanium | ppm ASTM D5185m | 0 | --- | --- |
| Silver | ppm ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m >25 | 0 | --- | --- |
| Lead | ppm ASTM D5185m >100 | 0 | --- | --- |
| Copper | ppm ASTM D5185m >200 | <1 | --- | --- |
| Tin | ppm ASTM D5185m >25 | 0 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-----------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m | 15 | --- | --- |
| Barium | ppm ASTM D5185m | 0 | --- | --- |
| Molybdenum | ppm ASTM D5185m | 0 | --- | --- |
| Manganese | ppm ASTM D5185m | 0 | --- | --- |
| Magnesium | ppm ASTM D5185m | 0 | --- | --- |
| Calcium | ppm ASTM D5185m | 23 | --- | --- |
| Phosphorus | ppm ASTM D5185m | 272 | --- | --- |
| Zinc | ppm ASTM D5185m | 13 | --- | --- |
| Sulfur | ppm ASTM D5185m | 12290 | --- | --- |

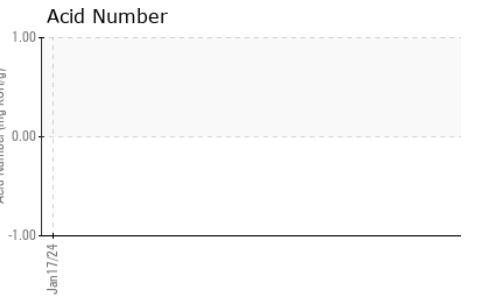
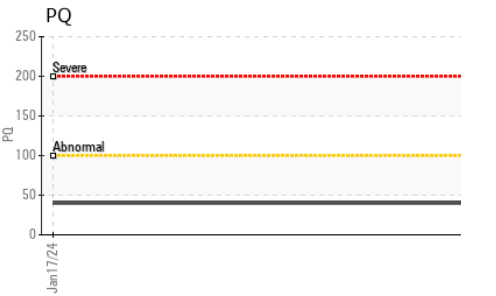
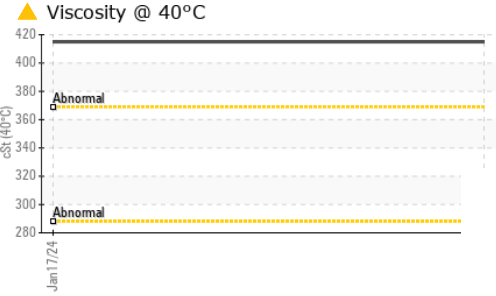
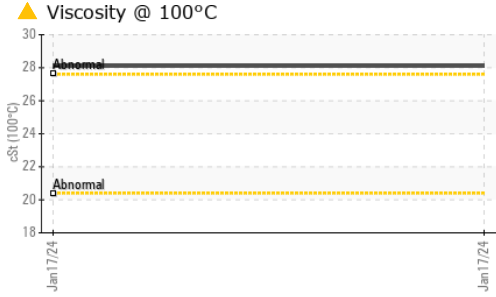
CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185m >50 | 16 | --- | --- |
| Sodium | ppm ASTM D5185m | <1 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | <1 | --- | --- |

VISUAL

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

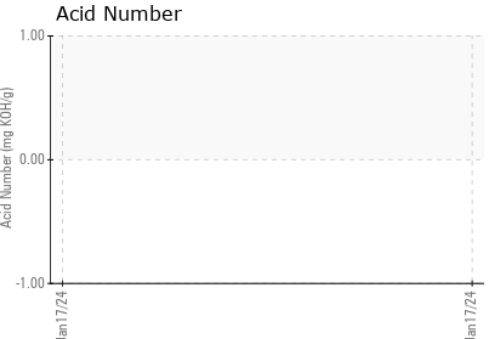
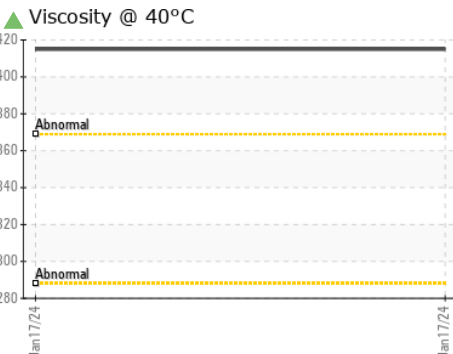
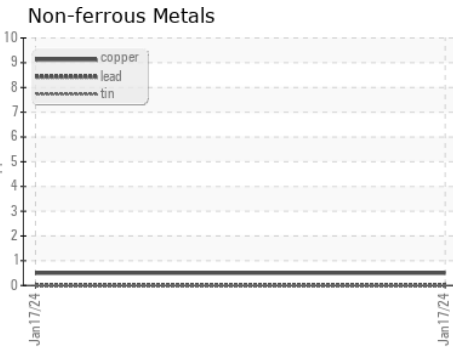
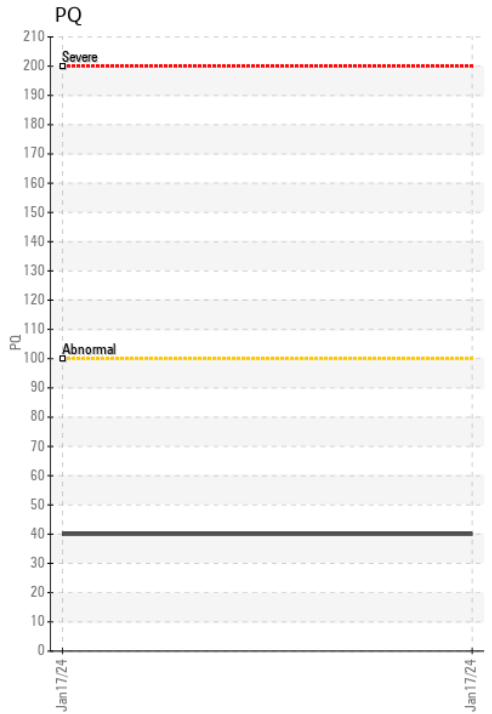
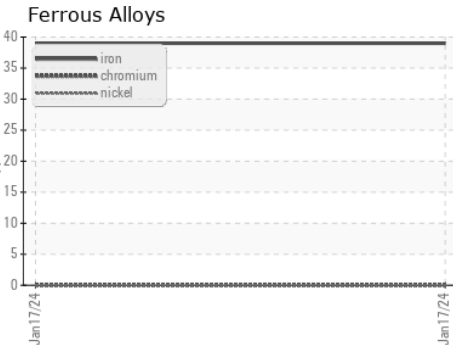
OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | ▲ 415 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | ▲ 28.1 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 93 | --- | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001521 **Received** : 17 Jan 2024
Lab Number : 06063906 **Diagnosed** : 20 Jan 2024
Unique Number : 10835288 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

KINGS DOMINION
 16000 THEME PARK DR, I-95 AT STATE RD 30
 DOSWELL, VA
 US
 Contact: RICHARD GREER
 richard.greer@kingsdominion.com

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)

T:
F: