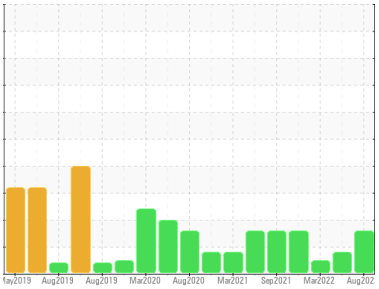
# PROBLEM SUMMARY

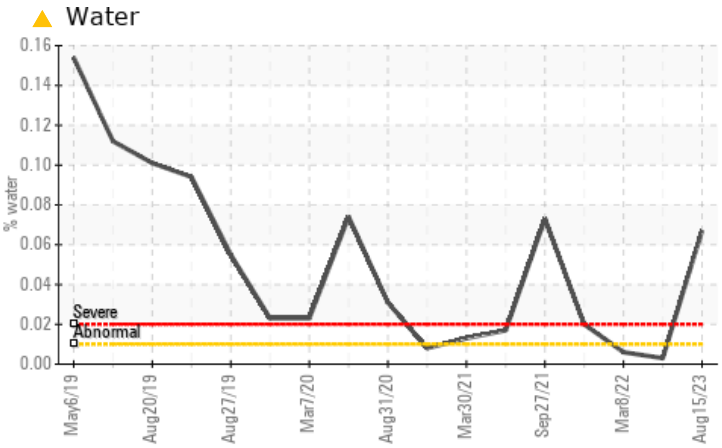
Sample Rating Trend



**WATER**

Area
## DRIVER PLANT
Machine Id
## C-1163 (S/N XC-8365)
Component
**Refrigeration Compressor**
Fluid
**SUMMIT PGI 100 (250 GAL)**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status | | | | MARGINAL | ATTENTION | NORMAL |
|---|---|---|---|---|---|---|
| Water | % | ASTM D6304 | >0.01 | ▲ **0.067** | 0.003 | 0.006 |
| ppm Water | ppm | ASTM D6304 | >100 | ▲ **679.4** | 34.8 | 65.4 |

**Customer Id:** TARDRIV
**Sample No.:** TO90002276
**Lab Number:** 05931616
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

*To change component or sample information:*
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**16 Mar 2023 Diag: Doug Bogart**

**ISO**

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**view report**

**08 Mar 2022 Diag: Don Baldridge**

**NORMAL**

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**view report**

**01 Dec 2021 Diag: Don Baldridge**

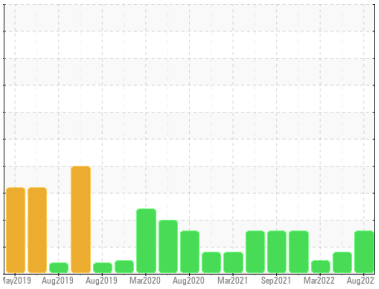
**WATER**

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**view report**

# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**

Area
## DRIVER PLANT
Machine Id
## C-1163 (S/N XC-8365)
Component
**Refrigeration Compressor**
Fluid
**SUMMIT PGI 100 (250 GAL)**

## DIAGNOSIS

**Recommendation**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is a light concentration of water present 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.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **TO90002276** | TO90002377 | TO90000865 |
| Sample Date | | Client Info | | **15 Aug 2023** | 16 Mar 2023 | 08 Mar 2022 |
| Machine Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **MARGINAL** | ATTENTION | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >8 | **5** | 3 | 0 |
| Chromium | ppm | ASTM D5185m | >2 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | **0** | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >3 | **0** | 1 | <1 |
| Lead | ppm | ASTM D5185m | >2 | **0** | 0 | 0 |
| Copper | ppm | ASTM D5185m | >8 | **<1** | 0 | 0 |
| Tin | ppm | ASTM D5185m | >4 | **1** | <1 | <1 |
| Antimony | ppm | ASTM D5185m | | **---** | --- | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | 2 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Calcium | ppm | ASTM D5185m | | **4** | 5 | 4 |
| Phosphorus | ppm | ASTM D5185m | | **1242** | 1534 | 1419 |
| Zinc | ppm | ASTM D5185m | | **0** | 2 | 0 |
| Sulfur | ppm | ASTM D5185m | | **3** | <1 | 0 |

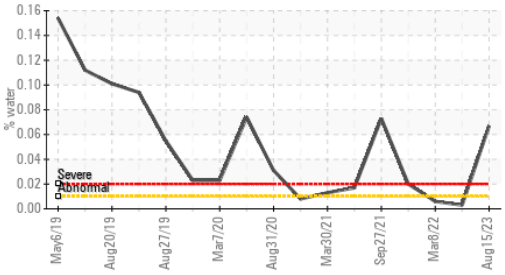
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >15 | **2** | 1 | <1 |
| Sodium | ppm | ASTM D5185m | | **1** | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | <1 | 0 |
| Water | % | ASTM D6304 | >0.01 | ▲ **0.067** | 0.003 | 0.006 |
| ppm Water | ppm | ASTM D6304 | >100 | ▲ **679.4** | 34.8 | 65.4 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >10000 | **3066** | 9332 | 1506 |
| Particles >6µm | | ASTM D7647 | >2500 | **798** | ▲ 2814 | 330 |
| Particles >14µm | | ASTM D7647 | >320 | **56** | 103 | 18 |
| Particles >21µm | | ASTM D7647 | >80 | **14** | 18 | 6 |
| Particles >38µm | | ASTM D7647 | >20 | **0** | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >4 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | **19/17/13** | ▲ 20/19/14 | 18/16/11 |

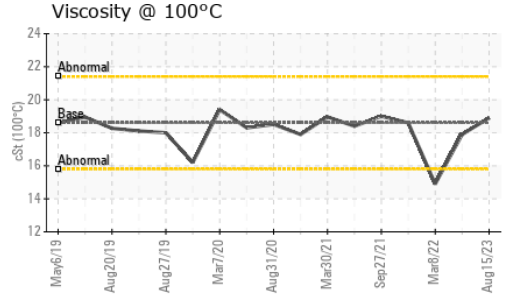
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D974 | | **0.014** | 0.014 | 0.013 |

# OIL ANALYSIS REPORT

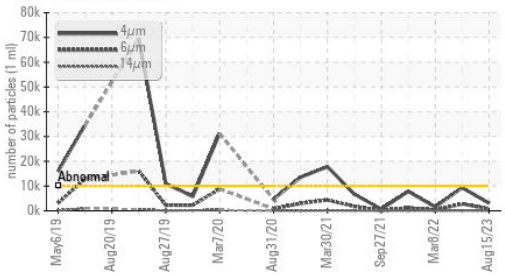
Water



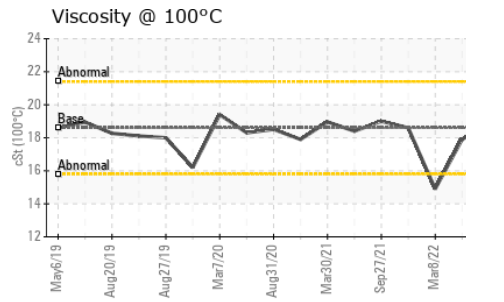

Viscosity @ 100°C



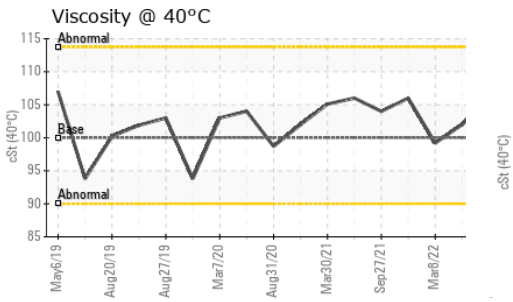

Particle Trend




Viscosity @ 100°C



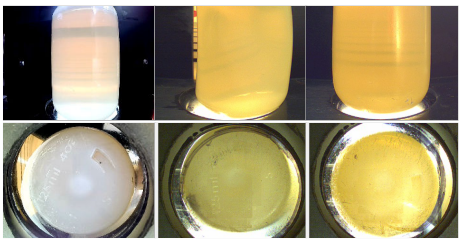

Viscosity @ 40°C




| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | LIGHT | 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 | >0.01 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

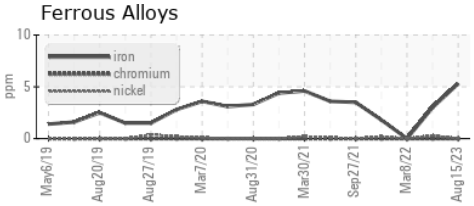
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 100 | **106** | 102 | 99.2 |
| Visc @ 100°C | cSt | ASTM D445 | 18.6 | **18.9** | 17.9 | 14.9 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 185 | **199** | 194 | 157 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | | | |
| Bottom | | | | | |

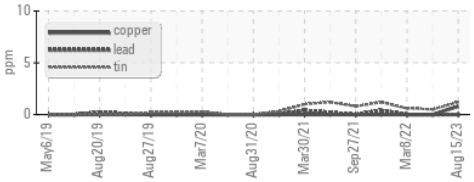


## GRAPHS

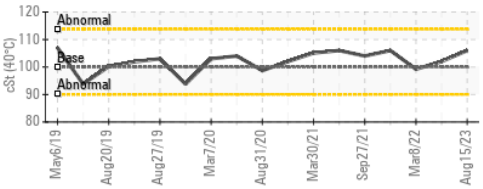
Ferrous Alloys



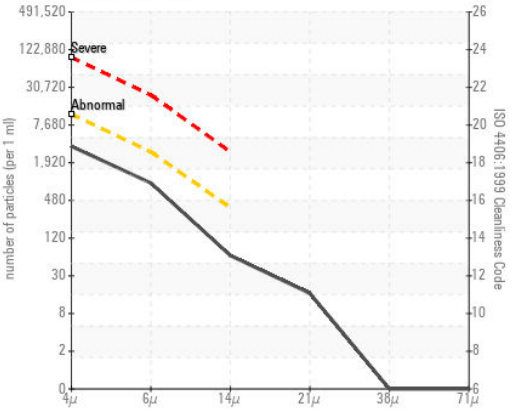

Non-ferrous Metals



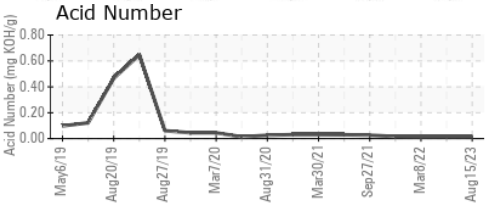

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : TO90002276 **Received** : 22 Aug 2023
**Lab Number** : 05931616 **Diagnosed** : 24 Aug 2023
**Unique Number** : 10616887 **Diagnostician** : Angela Borella
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

*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)*

**TARGA RESOURCES - DRIVER**
38003 FM 1379
MIDLAND, TX
US 78706
Contact: JUSTIN WADDELL
jwaddell@targaresources.com
T: (432)967-7967
F:

Report Id: TARDRIV [WUSCAR] 05931616 (Generated: 08/24/2023 15:18:36) Rev: 1

Submitted By: ERIC THORNTON