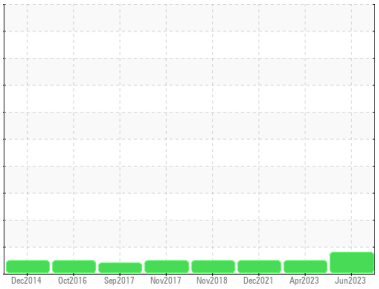
# OIL ANALYSIS REPORT

Sample Rating Trend




**WEAR**

Area
## Abbott Point of Care 1-1 [4500054809]
Machine Id
## TRANE N09M02554
Component
**Chiller**
Fluid
**TRANE 0022 (--- GAL)**

## DIAGNOSIS

**Recommendation**
We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

**Wear**
Tin ppm levels are abnormal. Bearing wear is indicated.

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **GTT0001364** | GTT57790 | GTT57791 |
| Sample Date | | Client Info | | **21 Jun 2023** | 05 Apr 2023 | 07 Dec 2021 |
| Machine Age | hrs | Client Info | | **0** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **ABNORMAL** | NORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185(m) | >8 | **4** | <1 | 2 |
| Chromium | ppm | ASTM D5185(m) | >2 | **0** | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | >2 | **0** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >3 | **<1** | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >2 | **0** | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >8 | **<1** | 1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | ▲ **5** | <1 | <1 |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | 0 | **<1** | --- | --- |
| Barium | ppm | ASTM D5185(m) | 0 | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | **0** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | **0** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 0 | **0** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 0 | **0** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 35 | **3** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 0 | **15** | 27 | 3 |
| Sulfur | ppm | ASTM D5185(m) | 30 | **0** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

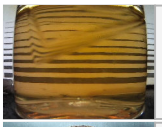
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >15 | **22** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **0** | --- | --- |
| ppm Water | ppm | ASTM D6304* | >50 | **6** | 23 | 29 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.05 | **0.08** | 0.047 | 0.020 |

# OIL ANALYSIS REPORT

| 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** | --- | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D7279(m) | 47 | **51.0** | --- | --- |

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

GRAPHS

**Sample No.** : GTT0001364 **Recieved** : 28 Dec 2023
**Lab Number** : 02605663 **Diagnosed** : 06 Jan 2024
**Unique Number** : 5698748 **Diagnostician** : Bill Quesnel
**Test Package** : IND 2 ( Additional Tests: KV40 )

*To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
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