



PROBLEM SUMMARY

Sample Rating Trend



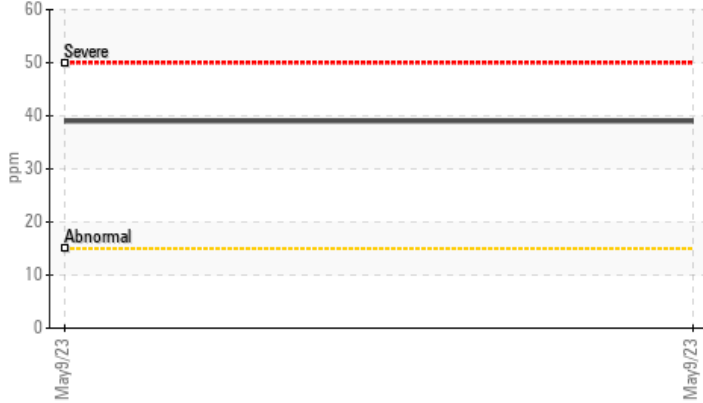
DIRT



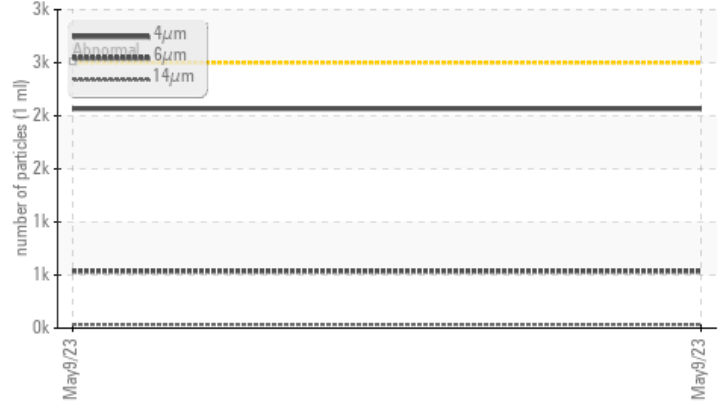
Machine Id
GTC 1200-87P
 Component
Hydraulic System
 Fluid
SHELL TELLUS T32 (410 GAL)

COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | --- | --- |
|-----------------|-----|------------------------|-------------------|-----|-----|
| Silicon | ppm | ASTM D5185m >15 | ▲ 39 | --- | --- |
| Particles >6µm | | ASTM D7647 >320 | ▲ 537 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) >18/15/13 | ▲ 18/16/12 | --- | --- |

Customer Id: SPAFRA
 Sample No.: WC0776056
 Lab Number: 05844379
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

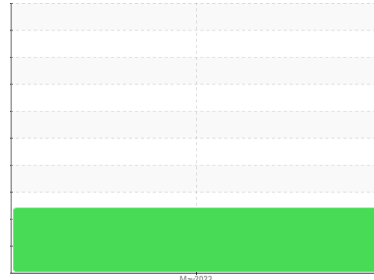
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
GTC 1200-87P
 Component
Hydraulic System
 Fluid
SHELL TELLUS T32 (410 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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 | WC0776056 | --- | --- |
| Sample Date | Client Info | 09 May 2023 | --- | --- |
| Machine Age | hrs Client Info | 45 | --- | --- |
| Oil Age | hrs Client Info | 0 | --- | --- |
| Oil Changed | Client Info | Filtered | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------|-----------------|--------------|----------|----------|
| Iron ppm | ASTM D5185m >20 | 0 | --- | --- |
| Chromium ppm | ASTM D5185m >20 | 0 | --- | --- |
| Nickel ppm | ASTM D5185m >20 | 0 | --- | --- |
| Titanium ppm | ASTM D5185m | 0 | --- | --- |
| Silver ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum ppm | ASTM D5185m >20 | 0 | --- | --- |
| Lead ppm | ASTM D5185m >20 | <1 | --- | --- |
| Copper ppm | ASTM D5185m >20 | 1 | --- | --- |
| Tin ppm | ASTM D5185m >20 | 0 | --- | --- |
| Vanadium ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------|------------------|------------|----------|----------|
| Boron ppm | ASTM D5185m | 0 | --- | --- |
| Barium ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum ppm | ASTM D5185m | 0 | --- | --- |
| Manganese ppm | ASTM D5185m | 0 | --- | --- |
| Magnesium ppm | ASTM D5185m | 55 | --- | --- |
| Calcium ppm | ASTM D5185m 48 | 12 | --- | --- |
| Phosphorus ppm | ASTM D5185m 337 | 299 | --- | --- |
| Zinc ppm | ASTM D5185m 426 | 338 | --- | --- |
| Sulfur ppm | ASTM D5185m 2280 | 876 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------|----------|----------|
| Silicon ppm | ASTM D5185m >15 | ▲ 39 | --- | --- |
| Sodium ppm | ASTM D5185m | <1 | --- | --- |
| Potassium ppm | ASTM D5185m >20 | 2 | --- | --- |

FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 >2500 | 2066 | --- | --- |
| Particles >6µm | ASTM D7647 >320 | ▲ 537 | --- | --- |
| Particles >14µm | ASTM D7647 >80 | 34 | --- | --- |
| Particles >21µm | ASTM D7647 >20 | 7 | --- | --- |
| Particles >38µm | ASTM D7647 >4 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) >18/15/13 | ▲ 18/16/12 | --- | --- |

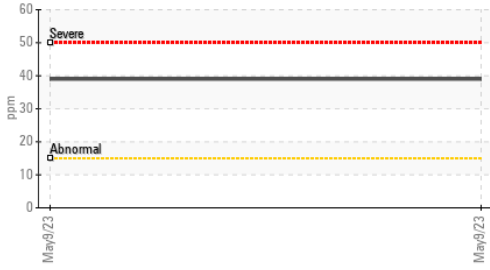
FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|---------------------------|---------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g | ASTM D8045 .6 | 0.38 | --- | --- |

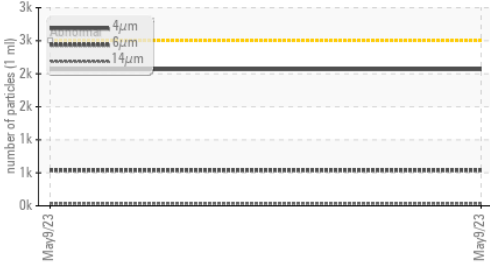


OIL ANALYSIS REPORT

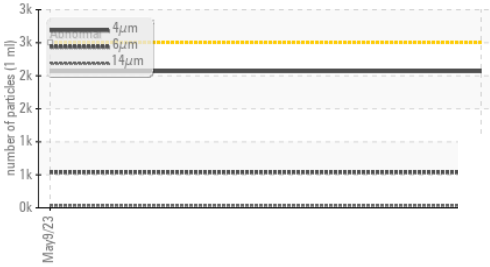
▲ Silicon (ppm)



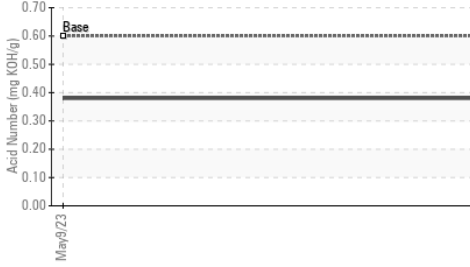
▲ Particle Trend



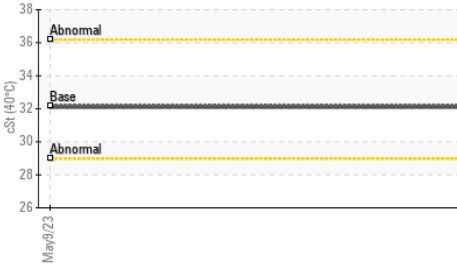
▲ Particle Trend



Acid Number



Viscosity @ 40°C



| 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 | >0.05 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

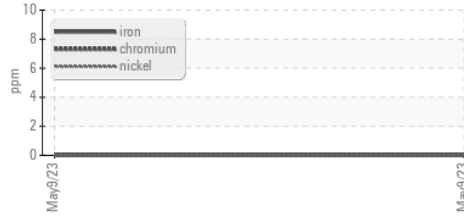
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 32.21 | 32.1 | --- |

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

| | | | |
|--------|--|----------|----------|
| Color | | no image | no image |
| Bottom | | no image | no image |

GRAPHS

Ferrous Alloys



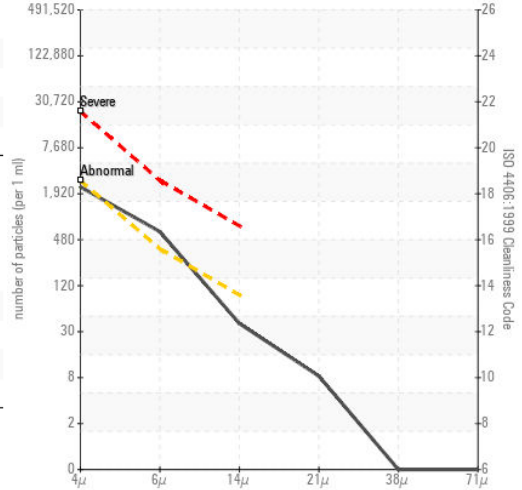
Non-ferrous Metals



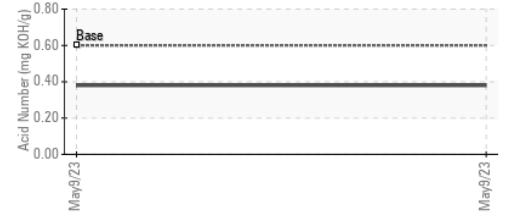
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0776056
 Lab Number : 05844379
 Unique Number : 10468486
 Test Package : IND 2

Received : 11 May 2023
 Diagnosed : 14 May 2023
 Diagnostician : Don Baldrige

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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)