



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

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

Machine Id
01
 Component
Front Differential
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

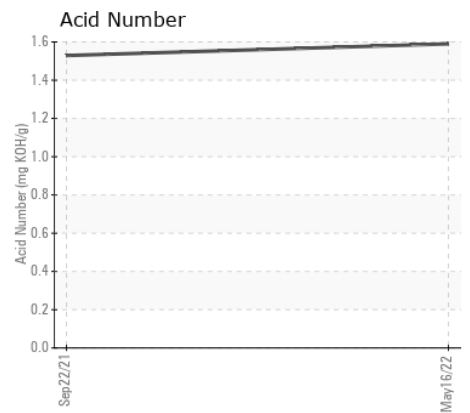
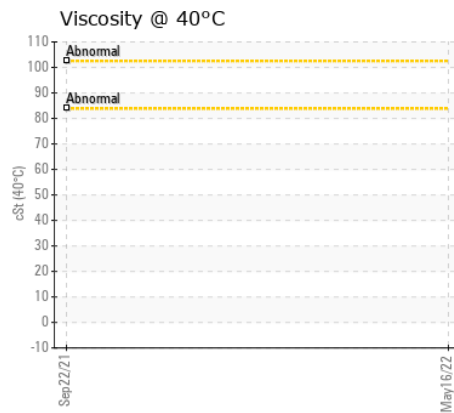
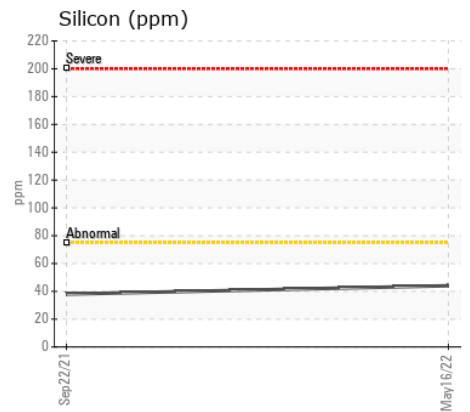
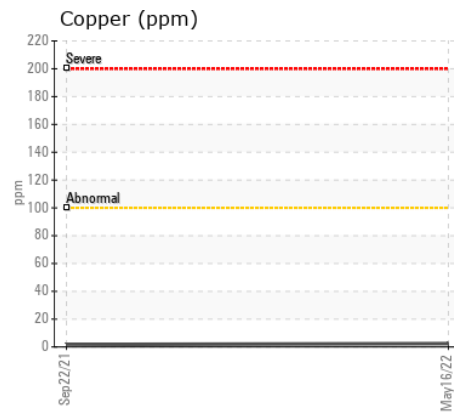
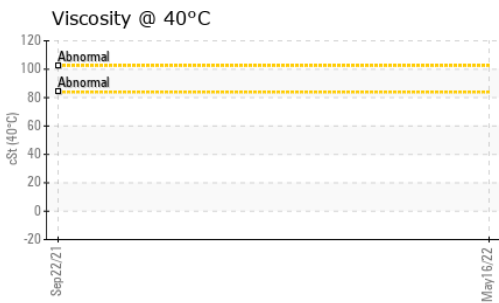
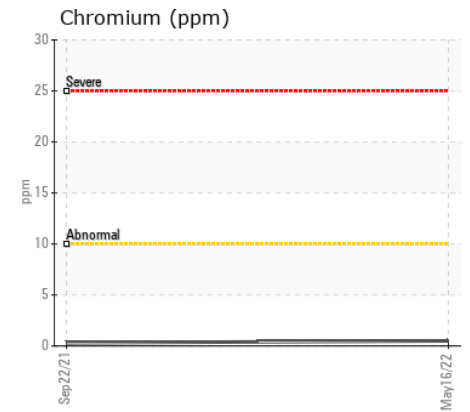
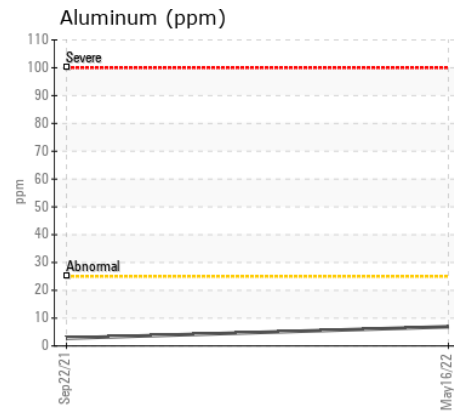
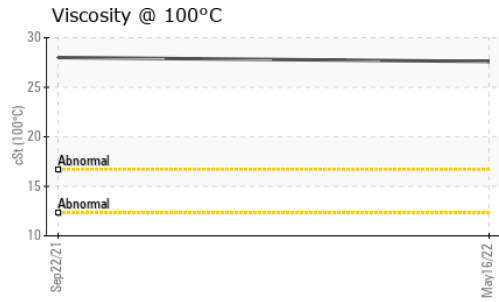
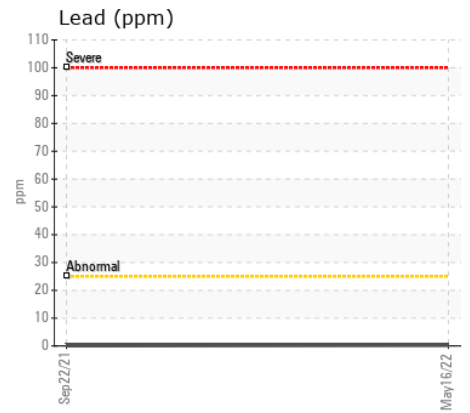
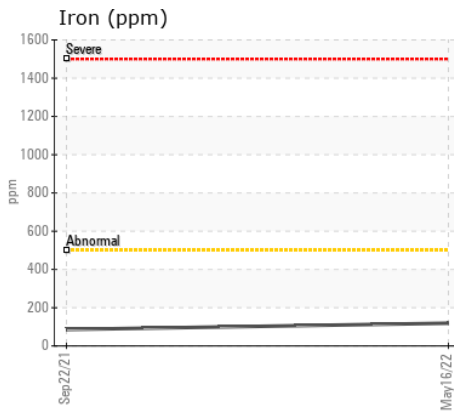
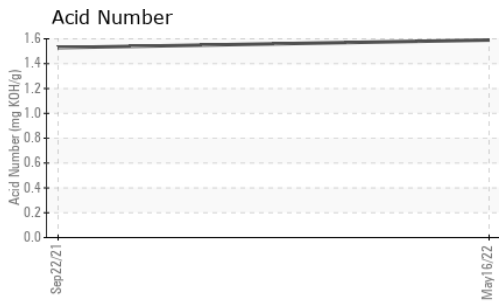
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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 | | TR0000688 | TR0000190 | --- |
| Sample Date | | Client Info | | 16 May 2022 | 22 Sep 2021 | --- |
| Machine Age | hrs | Client Info | | 1891 | 177222 | --- |
| Oil Age | hrs | Client Info | | 1891 | 177222 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changd | N/A | --- |
| Filter Changed | | Client Info | | Not Changd | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |
| Iron | ppm | ASTM D5185m | >500 | 119 | 86 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | | 1 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 7 | 3 | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >100 | 2 | 2 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Silicon | ppm | ASTM D5185m | >75 | 44 | 38 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | --- |
| Water | | WC Method | >.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | LIGHT | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >.2 | NEG | NEG | --- |
| Sodium | ppm | ASTM D5185m | | 1 | 0 | --- |
| Boron | ppm | ASTM D5185m | | 268 | 256 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 1 | <1 | --- |
| Calcium | ppm | ASTM D5185m | | 11 | 7 | --- |
| Phosphorus | ppm | ASTM D5185m | | 925 | 827 | --- |
| Zinc | ppm | ASTM D5185m | | 4 | 0 | --- |
| Sulfur | ppm | ASTM D5185m | | 17678 | 16358 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.59 | 1.529 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 27.6 | 28.0 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0000688 **Received** : 23 May 2022
Lab Number : 05551540 **Diagnosed** : 25 May 2022
Unique Number : 9985907 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: KV100)

S S CONCRETE MATERIALS LLC
P.O. BOX 23283
BULLHEAD CITY, AZ
US 86439
Contact: MARK OPHEIM

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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:
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