TRAAP
Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

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

Machine Id
## PETERBILT 379 TRK 3 (S/N 660988)
Component
## Diesel Engine
Fluid
## TRC PRO-SPEC V SYN BLEND 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

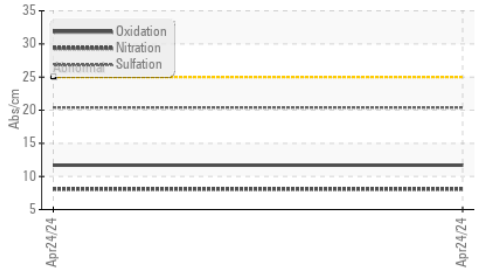
There is no indication of any contamination in the oil.

## FLUID CONDITION

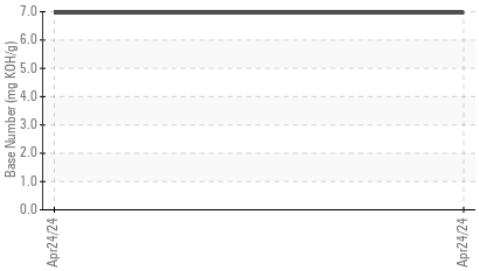
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | TR06177395 | --- | --- |
| Sample Date | | Client Info | | 24 Apr 2024 | --- | --- |
| Machine Age | mls | Client Info | | 908999 | --- | --- |
| Oil Age | mls | Client Info | | 10000 | --- | --- |
| Filter Age | mls | Client Info | | 10000 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >165 | 27 | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | >2 | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Lead | ppm | ASTM D5185m | >150 | 1 | --- | --- |
| Copper | ppm | ASTM D5185m | >90 | 1 | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >35 | 9 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | --- | --- |
| Fuel | | WC Method | >3.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >7.5 | 1.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.1 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.4 | --- | --- |
| 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 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 3 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 12 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 2338 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 956 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1035 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3970 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 11.7 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.96 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 16.7 | --- | --- |

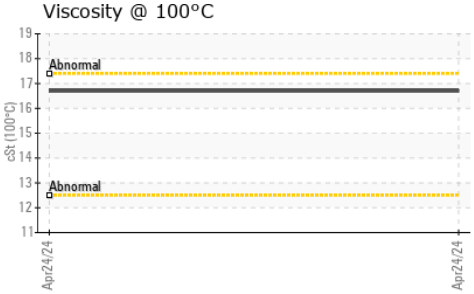
FT-IR (Direct Trend)



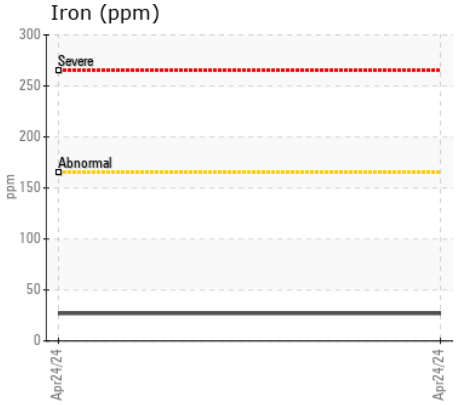

Base Number



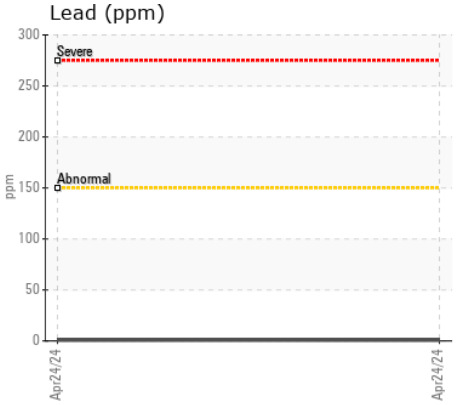

Viscosity @ 100°C



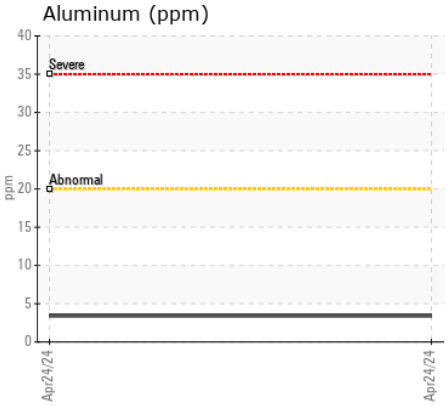

Iron (ppm)



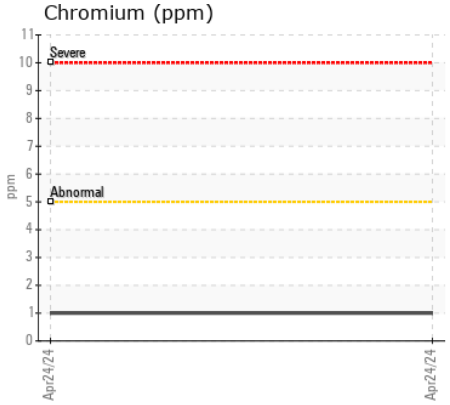

Lead (ppm)



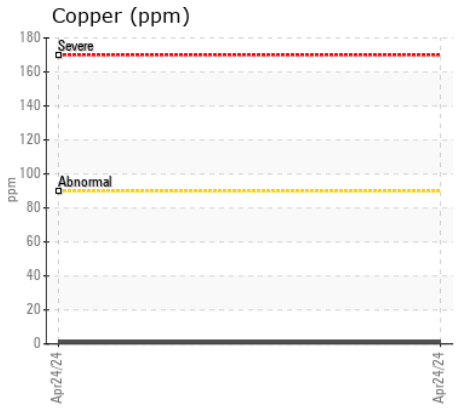

Aluminum (ppm)



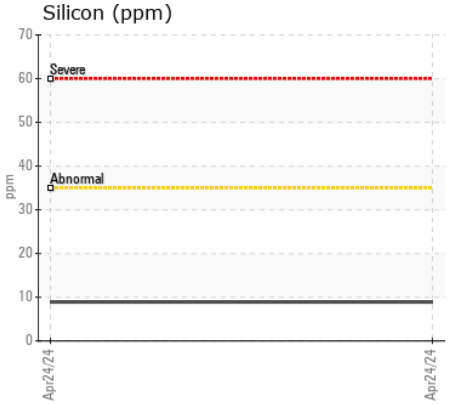

Chromium (ppm)



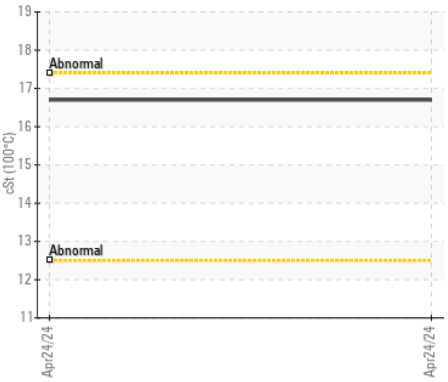

Copper (ppm)



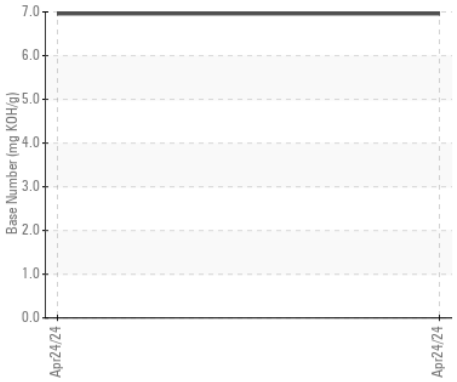

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : TR06177395
**Lab Number** : 06177395
**Unique Number** : 11023448
**Test Package** : MOB 2

**Received** : 13 May 2024
**Tested** : 14 May 2024
**Diagnosed** : 14 May 2024 - Wes Davis

*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)*

**KASKI LOGGING**
22411 HE CEDAR CREEK RD
AMBOY, WA
US 98601
Contact: NATHAN BYRD

T:
F: