

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
1009

Component
Gasoline Engine

Fluid
GASOLINE ENGINE OIL SAE 0W20 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 0w-20)

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | PCA0098668 | --- | --- |
| Sample Date | Client Info | | 29 Sep 2023 | --- | --- |
| Machine Age | mls | Client Info | 16100 | --- | --- |
| Oil Age | mls | Client Info | 5000 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >4.0 | <1.0 | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >150 | 16 | --- | --- |
| Chromium | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >40 | 2 | --- | --- |
| Lead | ppm | ASTM D5185m >50 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m >155 | 21 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 75 | 55 | --- | --- |
| Barium | ppm | ASTM D5185m 5 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 100 | 226 | --- | --- |
| Manganese | ppm | ASTM D5185m | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m 12 | 462 | --- | --- |
| Calcium | ppm | ASTM D5185m 2100 | 1250 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 650 | 629 | --- | --- |
| Zinc | ppm | ASTM D5185m 850 | 774 | --- | --- |
| Sulfur | ppm | ASTM D5185m 2500 | 2300 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m >30 | 77 | --- | --- |
| Sodium | ppm | ASTM D5185m >400 | 4 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 3 | --- | --- |

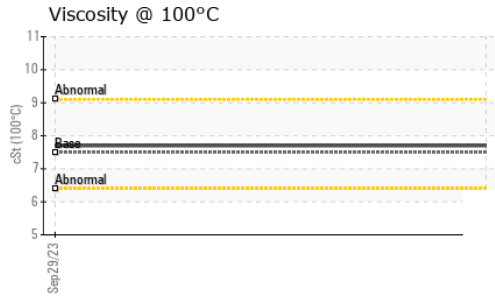
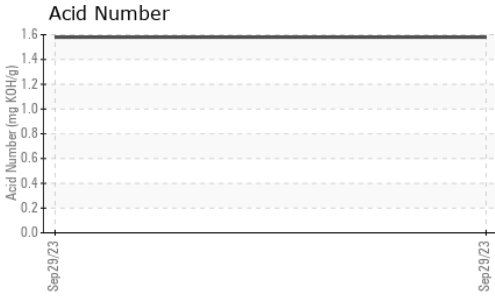
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | 0 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 10.5 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.4 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 16.1 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.58 | --- | --- |

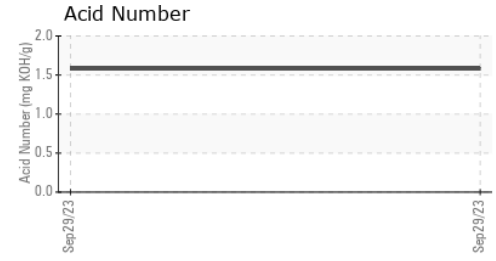
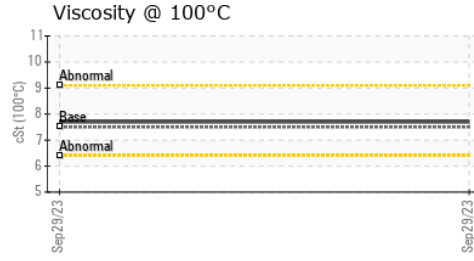
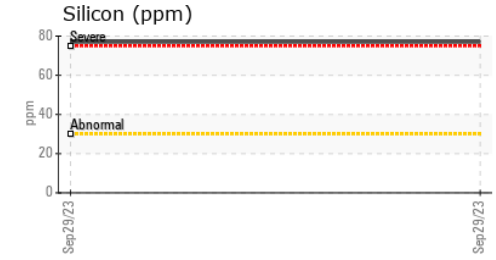
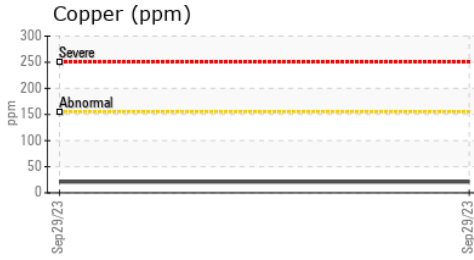
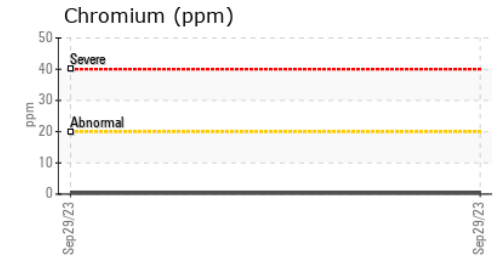
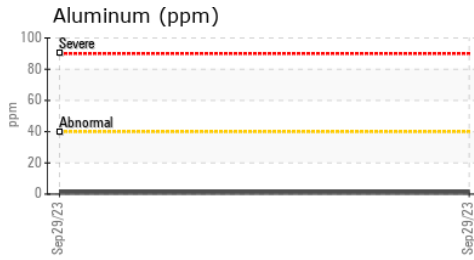
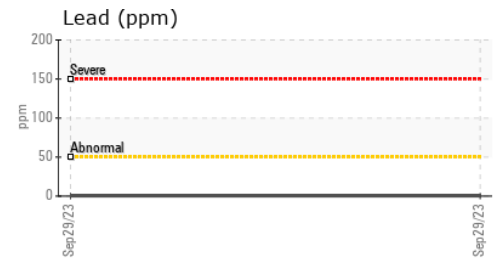
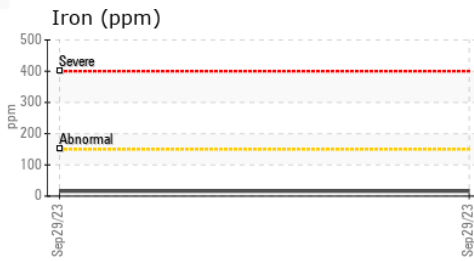
OIL ANALYSIS REPORT



| 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 | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 7.5 | 7.7 | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098668 **Received** : 04 Oct 2023
Lab Number : 05969083 **Diagnosed** : 06 Oct 2023
Unique Number : 10675634 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

DENNIS K BURKE INC - INTERNAL SAMPLES
 555 CONSTITUTION DR
 TAUNTON, MA
 US 02780
 Contact: GREG DUNKER

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)

T:
F: (617)889-6422