



OIL ANALYSIS REPORT

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

Area
[PMIAS3429607]

Machine Id
GENERAC GENERATOR 15056420200 7847981 - PFVFD-CO2

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DC0035220 | DC0028825 | DC0023202 |
| Sample Date | | Client Info | | 13 Jun 2024 | 11 May 2023 | 05 Sep 2022 |
| Machine Age | hrs | Client Info | | 144 | 136 | 131 |
| Oil Age | hrs | Client Info | | 0 | 1 | 0 |
| Filter Age | hrs | Client Info | | 0 | 1 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 2 | 1 | 2 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 0 | 1 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >330 | <1 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

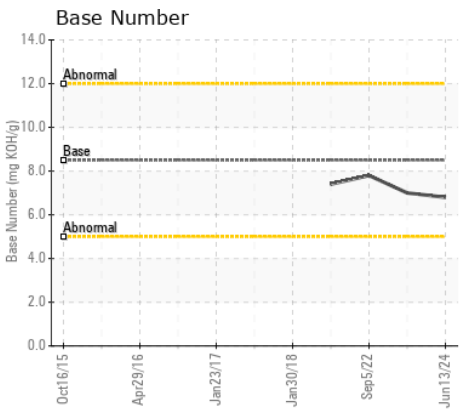
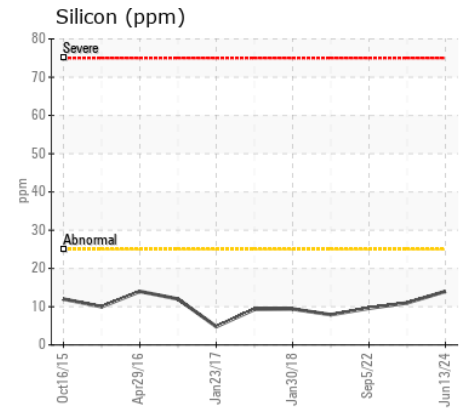
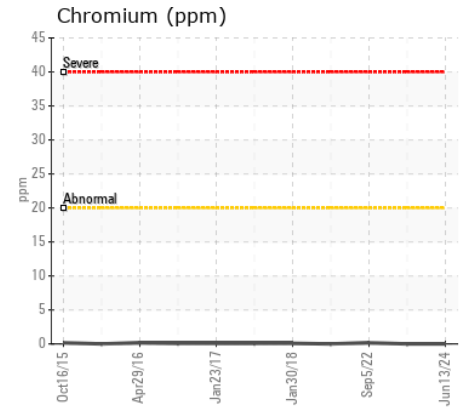
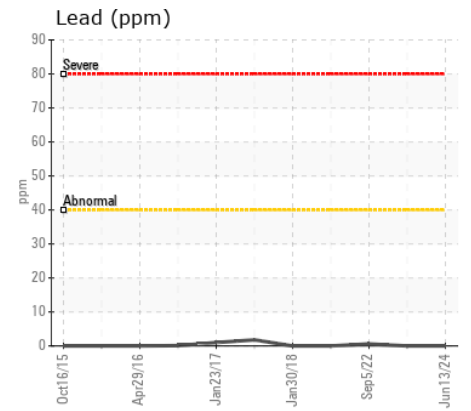
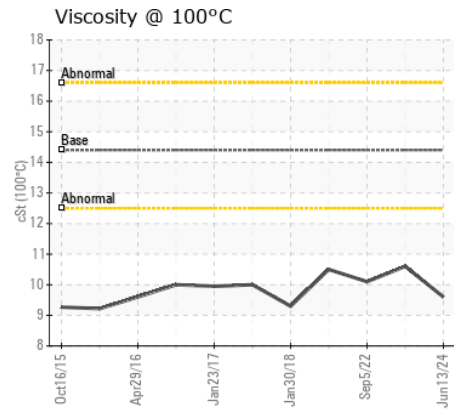
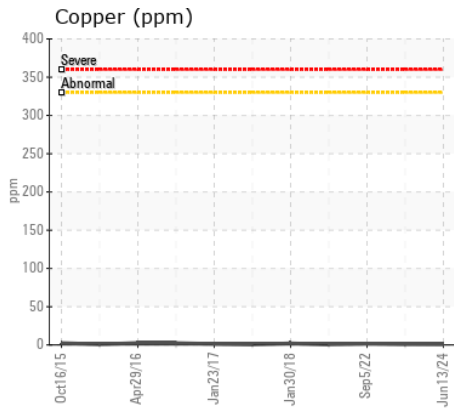
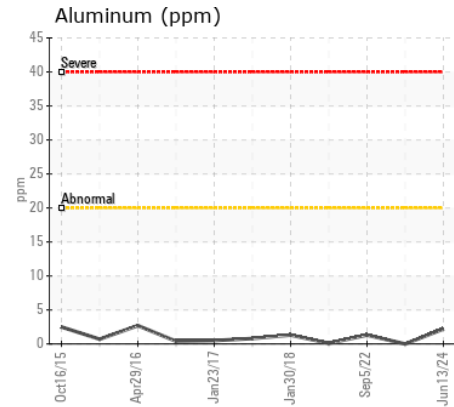
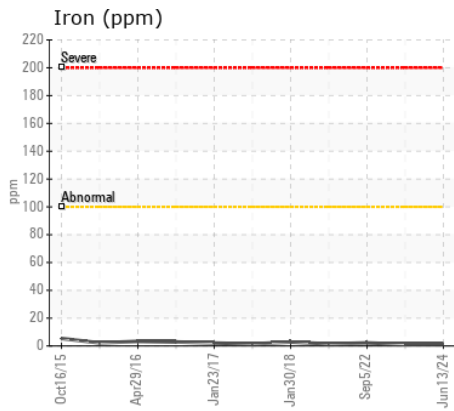
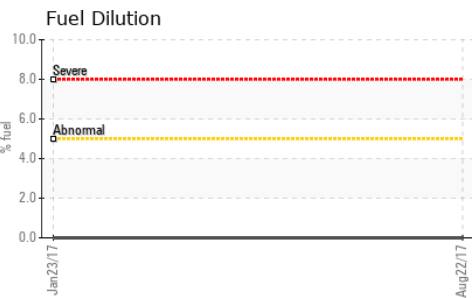
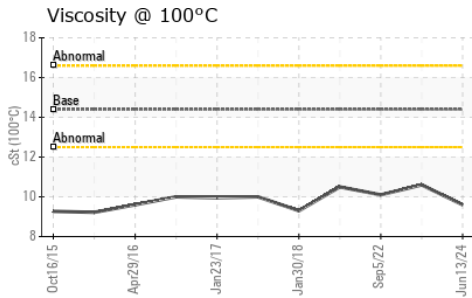
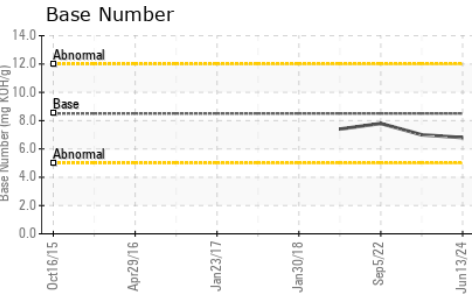
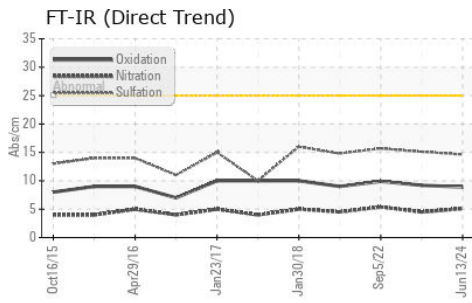
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 14 | 11 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 4 |
| Fuel | % | ASTM D3524 | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 5.1 | 4.5 | 5.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 14.6 | 15.1 | 15.7 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | >158 | 2 | 3 | 4 |
| Boron | ppm | ASTM D5185m | 250 | 140 | 199 | 162 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 40 | 64 | 36 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 450 | 741 | 511 | 570 |
| Calcium | ppm | ASTM D5185m | 3000 | 868 | 1150 | 746 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 657 | 660 | 525 |
| Zinc | ppm | ASTM D5185m | 1350 | 773 | 778 | 639 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3074 | 3105 | 2199 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 8.9 | 9.2 | 9.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 6.8 | 7.0 | 7.8 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 9.6 | 10.6 | 10.1 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0035220
Lab Number : 06219365
Unique Number : 11097562
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

KELLY GENERATOR & EQUIPMENT INC
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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)