



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

Area

[HERLIHY]

Machine Id

FISCHER PANDA C02-074-066

Component

Genset

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | VPA054223 | --- | --- |
| Sample Date | | Client Info | | 23 May 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 595 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >50 | 4 | --- | --- |
| Chromium | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >2 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >12 | 2 | --- | --- |
| Lead | ppm | ASTM D5185m | >17 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >70 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >15 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

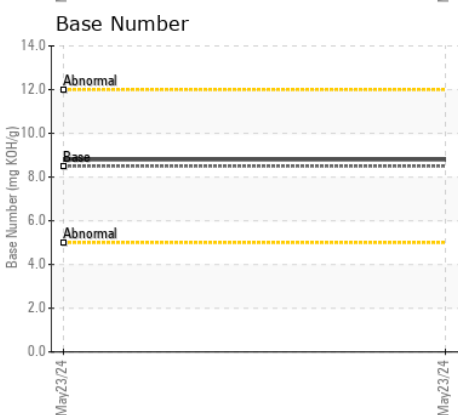
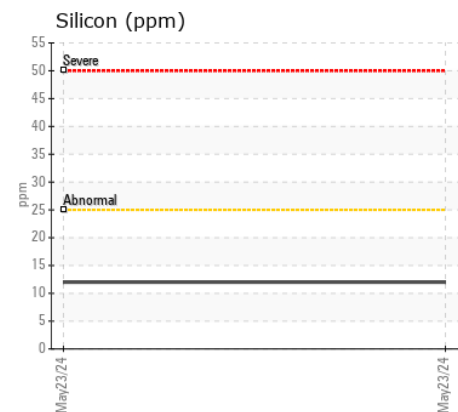
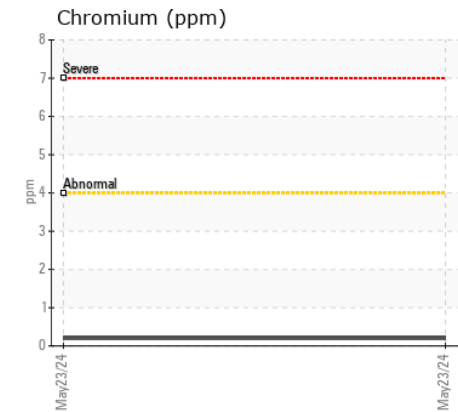
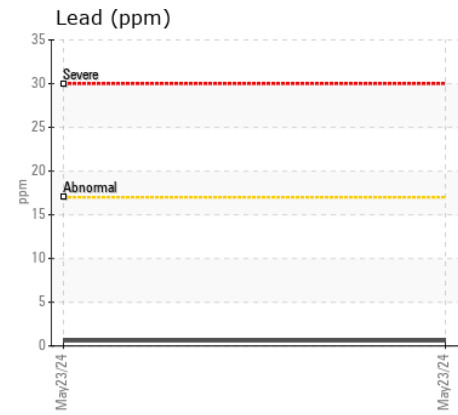
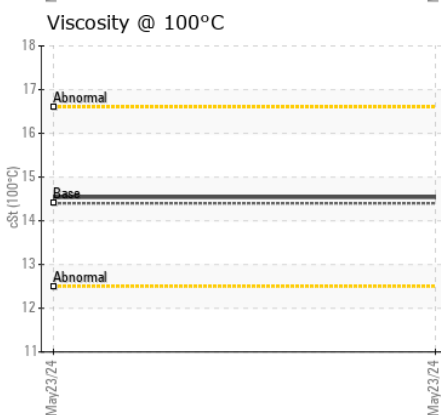
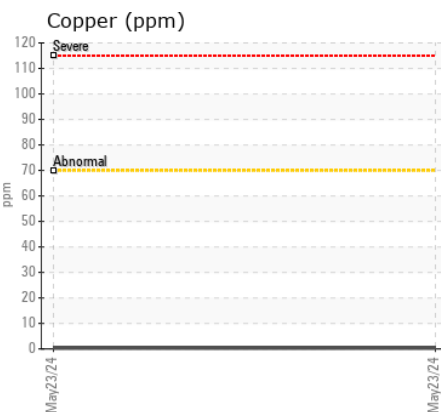
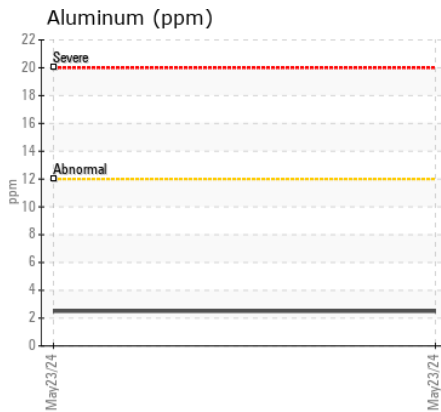
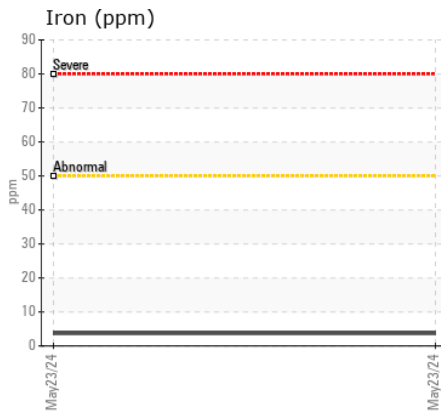
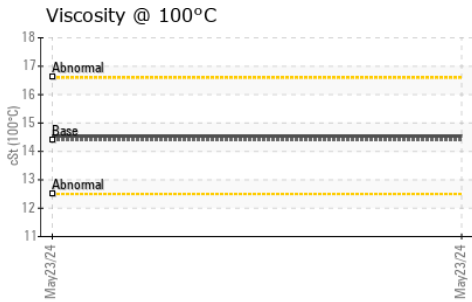
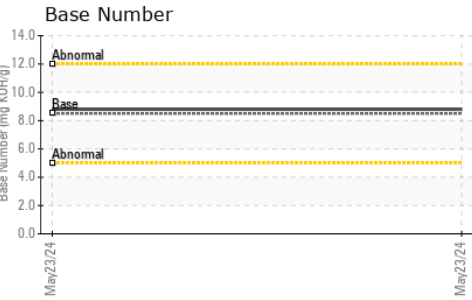
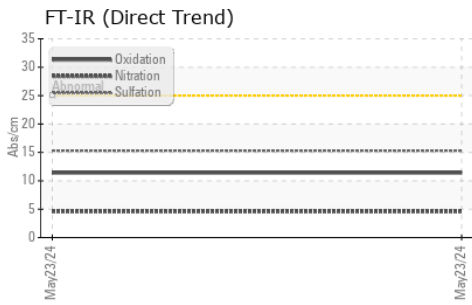
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >25 | 12 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Fuel | | WC Method | >4.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | | 0.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 4.6 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 15.3 | --- | --- |
| 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 | >0.1 | 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 | --- | --- |
| Boron | ppm | ASTM D5185m | 250 | 92 | --- | --- |
| Barium | ppm | ASTM D5185m | 10 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 100 | 46 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 450 | 548 | --- | --- |
| Calcium | ppm | ASTM D5185m | 3000 | 1568 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 912 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1350 | 1114 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 4250 | 3676 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 11.4 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.8 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 14.54 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA054223 **Received** : 24 May 2024
Lab Number : 06190924 **Tested** : 24 May 2024
Unique Number : 11047676 **Diagnosed** : 24 May 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: TBN)

SUNCOAST DIESEL MARINE
 6341 PORTER ROAD, SUITE 6
 SARASOTA, FL
 US 34240
 Contact: JOSHUA
 joshua@suncoastdmi.com
 T: (941)342-0033
 F: (941)342-0088

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)