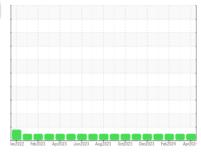


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

Watkins 1

Natural Gas Engine

PETRO CANADA SENTRON LD 3000 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

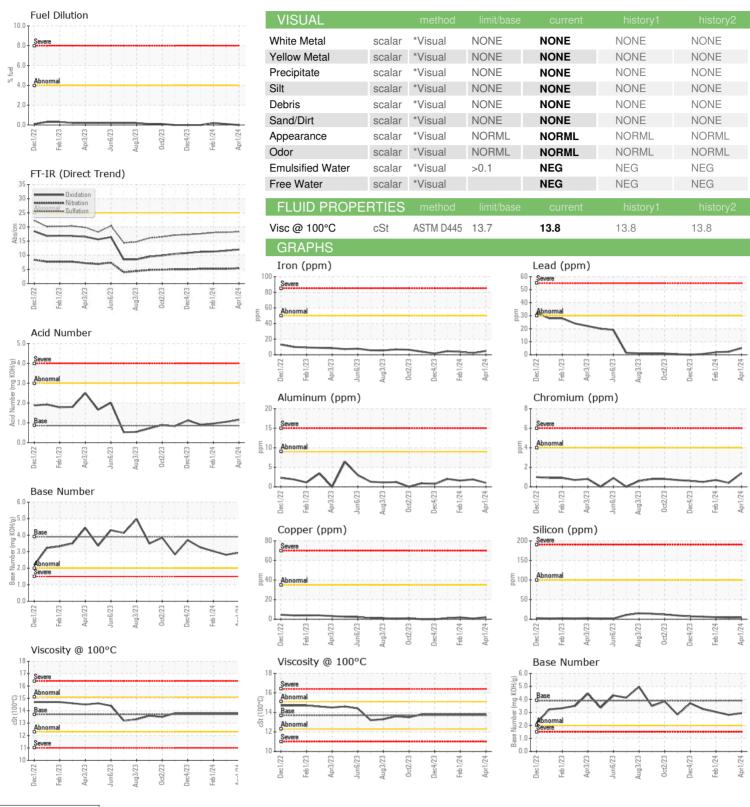
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| AL) | | Jec2022 Feb20 | 023 Apr2023 Jun2023 | Aug2023 Oct2023 Dec2023 Feb2 | 024 Apr202 | |
|------------------|----------|---------------|---------------------|------------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0117149 | PCA0112034 | PCA0117159 |
| Sample Date | | Client Info | | 01 Apr 2024 | 04 Mar 2024 | 01 Feb 2024 |
| Machine Age | hrs | Client Info | | 102400 | 101457 | 100689 |
| Oil Age | hrs | Client Info | | 7003 | 6060 | 5292 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 5 | 2 | 4 |
| Chromium | ppm | ASTM D5185m | >4 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 1 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >30 | 5 | 2 | 2 |
| Copper | ppm | ASTM D5185m | >35 | 2 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >4 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 1 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 2 | 2 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 1 | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 5 | 12 | 15 | 15 |
| Calcium | ppm | ASTM D5185m | 1220 | 1548 | 1474 | 1477 |
| Phosphorus | ppm | ASTM D5185m | 298 | 308 | 289 | 308 |
| Zinc | ppm | ASTM D5185m | 350 | 370 | 379 | 373 |
| Sulfur | ppm | ASTM D5185m | 1995 | 2855 | 2546 | 2608 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 5 | 4 | 5 |
| Sodium | ppm | ASTM D5185m | >20 | 0 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 3 |
| Fuel | % | ASTM D3524 | >4.0 | 0.0 | 0.1 | 0.2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >15 | 5.4 | 5.2 | 5.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >25 | 18.3 | 18.1 | 18.0 |
| FLUID DEGRAI | OATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >20 | 12.0 | 11.6 | 11.3 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.86 | 1.15 | 1.05 | 0.96 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 3.9 | 2.93 | 2.81 | 3.03 |
| | | | | | | |



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0117149 Lab Number : 06146068 Unique Number : 10976146

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 11 Apr 2024 : 16 Apr 2024

: 16 Apr 2024 - Jonathan Hester

ENERVEST OPERATING - WATKINS 3896 SUNSET HOLLOW ROAD GRUNDY, VA US 24614 Contact: Service Manager

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) 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: