

OIL ANALYSIS REPORT



Machine Id G100 Component Biogas Engine Fluid PETRO CANADA SENTRON LD 5000 (--- GAL)

DIAGNOSIS

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

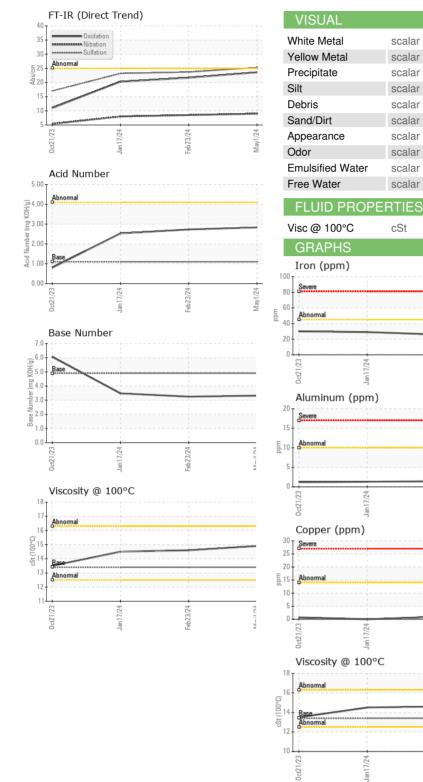
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 | |
|------------------|----------|-------------|------------|---|-------------|-------------|--|
| Sample Number | | Client Info | | PCA0069079 | PCA0069056 | PCA0069055 | |
| Sample Date | | Client Info | | 01 May 2024 | 23 Feb 2024 | 17 Jan 2024 | |
| Machine Age | hrs | Client Info | | 13846 | 12829 | 12483 | |
| Oil Age | hrs | Client Info | | 0 | 0 | 1268 | |
| Oil Changed | | Client Info | | N/A | N/A | Not Changd | |
| Sample Status | | | | NORMAL | NORMAL | NORMAL | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 | |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.1 | NEG | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | NEG | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 | |
| Iron | ppm | ASTM D5185m | >45 | 27 | 26 | 29 | |
| Chromium | ppm | ASTM D5185m | >2 | 1 | <1 | 1 | |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 | |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 1 | 1 | |
| Lead | ppm | ASTM D5185m | >5 | 5 | 3 | 2 | |
| Copper | ppm | ASTM D5185m | >14 | 1 | <1 | 0 | |
| Tin | ppm | ASTM D5185m | >13 | 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 | 2 | 0 | <1 | 0 | |
| Barium | ppm | ASTM D5185m | 3 | 1 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 4 | <1 | <1 | |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 | |
| Magnesium | ppm | ASTM D5185m | 4 | 33 | 24 | 25 | |
| Calcium | ppm | ASTM D5185m | 1727 | 2357 | 2093 | 2127 | |
| Phosphorus | ppm | ASTM D5185m | 272 | 451 | 344 | 359 | |
| Zinc | ppm | ASTM D5185m | 333 | 515 | 449 | 458 | |
| Sulfur | ppm | ASTM D5185m | 3415 | 4868 | 3451 | 3470 | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >200 | 3 | 3 | 4 | |
| Sodium | ppm | ASTM D5185m | | 3 | 6 | 6 | |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 | |
| Nitration | Abs/cm | *ASTM D7624 | | 9.0 | 8.5 | 8.0 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.3 | 23.7 | 23.2 | |
| FLUID DEGRAD | DATION | method | limit/base | current | history1 | history2 | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 23.6 | 21.7 | 20.3 | |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.1 | 2.83 | 2.73 | 2.53 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 4.9 | 3.32 | 3.25 | 3.48 | |
| 3:54:27) Rev: 1 | | | | Contact/Location: JOSHUA AVILA - YAAHIG | | | |

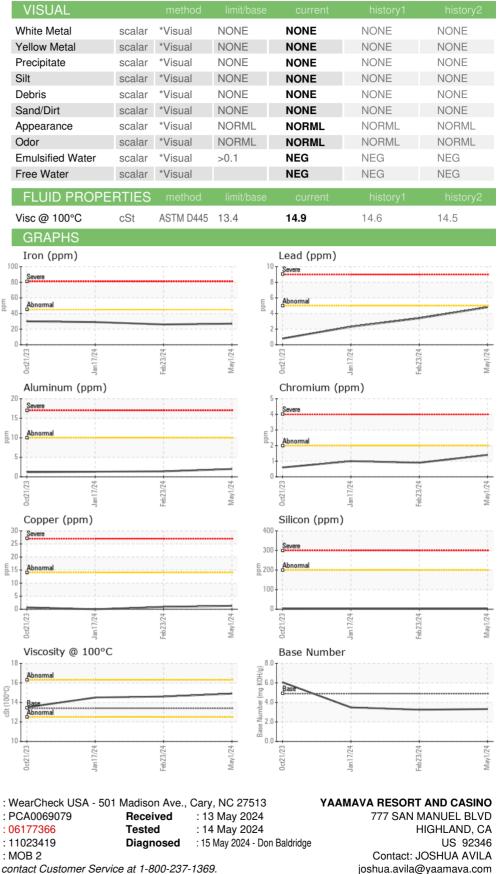
Report Id: YAAHIG [WUSCAR] 06177366 (Generated: 05/15/2024 13:54:27) Rev: 1

Page 1 of 2



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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.

: PCA0069079

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: YAAHIG [WUSCAR] 06177366 (Generated: 05/15/2024 13:54:27) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06177366

Unique Number : 11023419

Test Package : MOB 2

Contact/Location: JOSHUA AVILA - YAAHIG

T:

F: