

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

O1 Component

Diesel Engine

AMSOIL SYN XL 7500 SAE 5W20 (--- QTS)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. 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

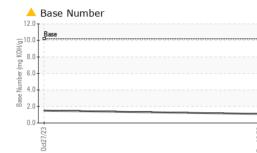
The BN level is low. The condition of the oil is acceptable for the time in service.

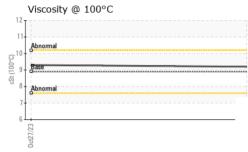
| | | | 0ct2023 | Dec2023 | | |
|---------------|----------|-------------|------------|-------------|-------------|----------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0071101 | PCA0071109 | |
| Sample Date | | Client Info | | 18 Dec 2023 | 27 Oct 2023 | |
| Machine Age | mls | Client Info | | 60970 | 55000 | |
| Oil Age | mls | Client Info | | 5100 | 5300 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | ABNORMAL | ABNORMAL | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 7 | 6 | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | |
| Nickel | ppm | | >4 | <1 | <1 | |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | |
| Copper | ppm | ASTM D5185m | | 36 | 33 | |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | 210 | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | ppin | method | limit/base | - | - | history |
| | | | IIIIIVDase | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 230 | 157 | |
| Barium | ppm | ASTM D5185m | | 9 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 210 | 186 | |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | |
| Magnesium | ppm | ASTM D5185m | | 881 | 808 | |
| Calcium | ppm | ASTM D5185m | | 1190 | 1075 | |
| Phosphorus | ppm | ASTM D5185m | | 738 | 648 | |
| Zinc | ppm | ASTM D5185m | | 783 | 724 | |
| Sulfur | ppm | ASTM D5185m | | 3364 | 2835 | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 9 | 8 | |
| Sodium | ppm | ASTM D5185m | | 1 | 4 | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.1 | |
| Nitration | Abs/cm | *ASTM D7624 | | 11.1 | 11.0 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 61.2 | 62.9 | |
| FLUID DEGRAI | | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Oxidation | Abs/ 1mm | *ASTM D7414 | >25 | 63.9 | 64.4 | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 63.9 | 64.4 | |



OIL ANALYSIS REPORT

VISUAL





| | VICONE | | motilou | initia babb | ourront | motory | inotory 2 |
|---|----------------------------|-----------|------------|---|-------------------|---------------|----------------|
| | White Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Precipitate | scalar | *Visual | NONE | NONE | NONE | |
| | Silt | scalar | *Visual | NONE | NONE | NONE | |
| | Debris | | *Visual | NONE | NONE | NONE | |
| | | scalar | | | | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| Dec18/23 | Appearance | scalar | *Visual | NORML | NORML | NORML | |
| De | Odor | scalar | *Visual | NORML | NORML | NORML | |
| ٥°C | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
| | Free Water | scalar | *Visual | | NEG | NEG | |
| | FLUID PROPE | BTIES | method | limit/base | current | history1 | history2 |
| | Visc @ 100°C | cSt | ASTM D445 | | 9.2 | 9.3 | |
| | GRAPHS | | | | | | |
| | Ferrous Alloys | | | | | | |
| | ¹⁰ | | | | | | |
| | 8+ | | | | | | |
| | nickel | | | | | | |
| | 6- | | | | | | |
| | udd | | | | | | |
| | 4 | | | | | | |
| | 2- | | | | | | |
| | | | | | | | |
| | 53 | ***** | | 23 | | | |
| | 0ct27/23 | | | Dec18/23 | | | |
| | _ | 1- | | | | | |
| | Non-ferrous Meta | IS | | | | | |
| | 35 - copper | | | | | | |
| | 30 - | | | | | | |
| | 25 - | | | | | | |
| | Ē_20- | | | | | | |
| | 15- | | | | | | |
| | 10 | | | | | | |
| | 5- | | | | | | |
| | | | | | | | |
| | 0ct27/23 | | | Dec18/23 | | | |
| | Oct | | | Dec | | | |
| | Viscosity @ 100°C | 2 | | | 🔺 Base Number | | |
| | 11- | | | 12 | | | |
| | 10.5 Abnormal | | | 10 | 0.0 - Base | | |
| | 10 | | | B/HO) | 8.0 | | |
| | 9.5 - Base | | | | | | |
| 5 | 3 8.5 | | | mber 1 | 5.0 | | |
| | 8 Abnormal | | | N as | ł.0 - | | |
| | 7.5 | | | 2 | 2.0 | | |
| | 6.5 | | | |).0 | | |
| | | | | | | | 3/23 - |
| | 0ct27/23 | | | Dec18/23 | 0ct27/23 | | Dec18/23 |
| Laboratory | : WearCheck USA - | 501 Madi | | | 3 ** | | |
| Sample No. | | Recieved | | AMERICAN NATURAL SUPPLY 12475 RTE 119 HWY N ROCHESTER MILLS, PA | | | |
| Lab Number | | Diagnos | | | | | |
| Unique Number | : 10806003 | Diagnost | | an Felton | | | US 15771 |
| Certificate L2367 Test Package | | | | _ | | | COTT KINTER |
| To discuss this sample report, | | | | | | skinter@ameri | cannatural.com |
| * - Denotes test methods that a Statements of conformity to spec | | | | | (ICGM 106-2012 | 1 | T: F: |
| Statements of comonnity to spec | Sincations are Daseu OII l | ne simple | acceptance | iecision nule | (JUGIVI 100.2012) | | г. |

limit/base

current

method

history1

history2