



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
{UNASSIGNED}
 Machine Id
Shop Truck (S/N 2020)
 Component
Gasoline Engine
 Fluid
PENNZOIL PLATNIUM FULL SYNTHETIC 5W30 (9 LTR)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 5w20 oil was the grade used, penn platinum syn)

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0828649 | --- | --- |
| Sample Date | Client Info | | 16 Jan 2024 | --- | --- |
| Machine Age | kms | Client Info | 65000 | --- | --- |
| Oil Age | kms | Client Info | 7500 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >4.0 | <1.0 | --- | --- |
| Water | WC Method | >0.2 | NEG | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >150 | 6 | --- | --- |
| Chromium | ppm | ASTM D5185(m) >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) >40 | 4 | --- | --- |
| Lead | ppm | ASTM D5185(m) >50 | <1 | --- | --- |
| Copper | ppm | ASTM D5185(m) >155 | <1 | --- | --- |
| Tin | ppm | ASTM D5185(m) >10 | 0 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | 26 | --- | --- |
| Barium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 245 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 495 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 1260 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 622 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 719 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 1905 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | <1 | --- | --- |

CONTAMINANTS

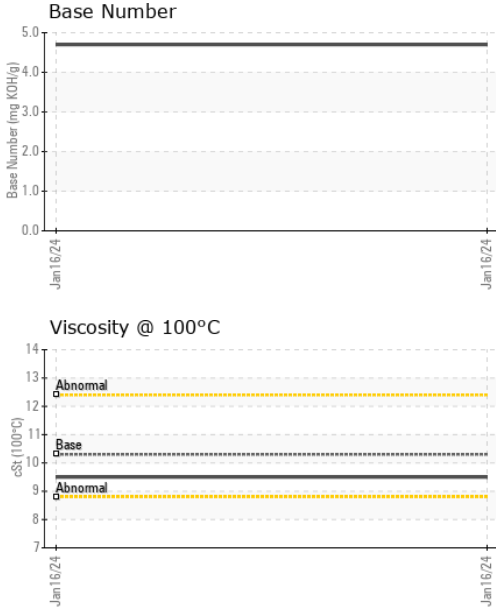
| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >30 | 14 | --- | --- |
| Sodium | ppm | ASTM D5185(m) >400 | 2 | --- | --- |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | --- | --- |

INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | ASTM D7844* | 0 | --- | --- |
| Nitration | Abs/cm | ASTM D7624* >20 | 10.6 | --- | --- |
| Sulfation | Abs./1mm | ASTM D7415* >30 | 22.8 | --- | --- |



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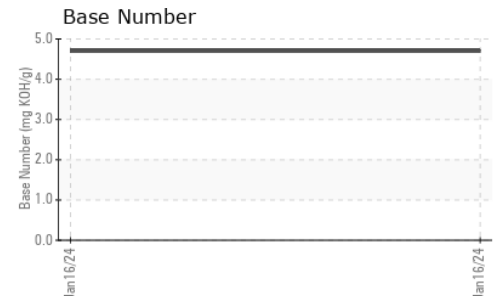
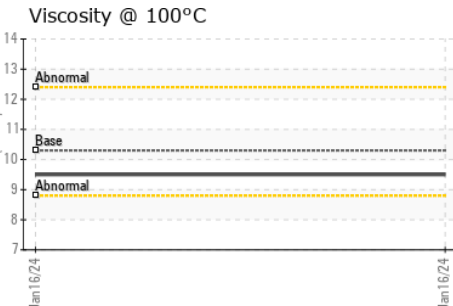
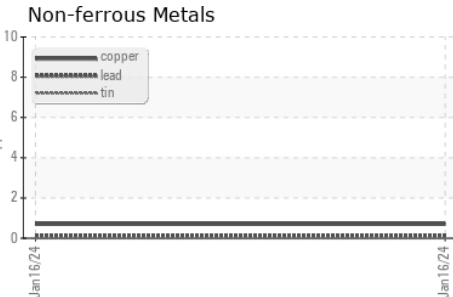
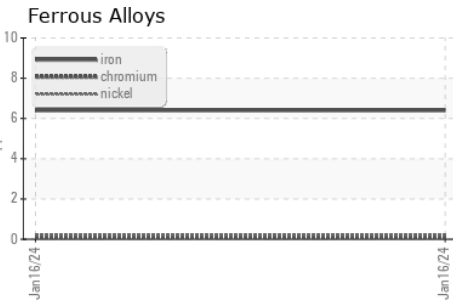


| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.6 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896* | | 4.70 | --- | --- |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | VLITE | --- | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- | --- |
| 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* | >0.2 | NEG | --- | --- |
| Free Water | scalar | Visual* | | NEG | --- | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|---------------|------------|------------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 10.3 | 9.5 | --- | --- |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CAN ART ALUMINUM EXTRUSION INC**
Sample No. : WC0828649 **Received** : 18 Jan 2024 **428 JUTRAS DRIVE SOUTH**
Lab Number : **02609693** **Diagnosed** : 19 Jan 2024 **TECUMSEH, ON**
Unique Number : 5710779 **Diagnostician** : Kevin Marson **CA N8N 5C5**
Test Package : IND 2 **Contact:** Angelo Bertoia

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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