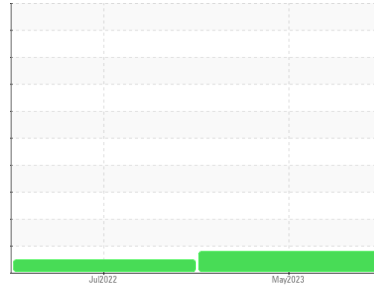


PROBLEM SUMMARY

Sample Rating Trend



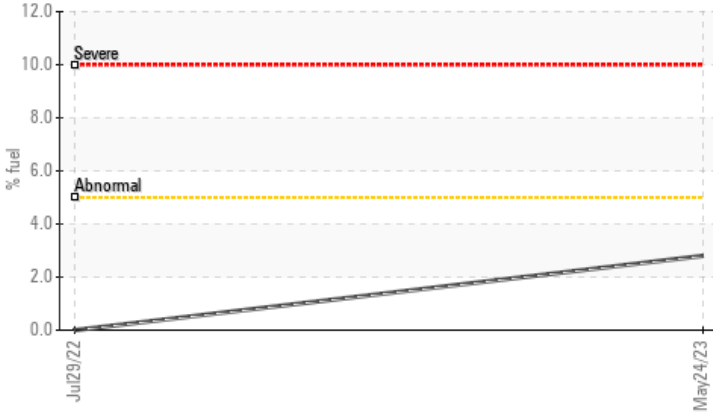
FUEL



Machine Id
1205
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Fuel Dilution



RECOMMENDATION

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

PROBLEMATIC TEST RESULTS

| Sample Status | | | MARGINAL | NORMAL | --- |
|---------------|---|-------------|-----------------|--------|-----|
| Fuel | % | ASTM D7593* | ▲ 2.8 | --- | --- |

Customer Id: STJNEW
Sample No.: PC0061465
Lab Number: 02568028
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

29 Jul 2022 Diag: Wes Davis

NORMAL



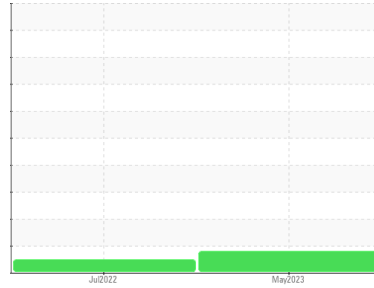
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report





Machine Id
1205
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)



DIAGNOSIS

Recommendation
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear
All component wear rates are normal.

Contamination
Light fuel dilution occurring. No other contaminants were detected in the fluid.

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

SAMPLE INFORMATION

| method | limit/base | current | history 1 | history 2 |
|---------------|-------------|--------------------|-------------|-----------|
| Sample Number | Client Info | PC0061465 | PC0052689 | --- |
| Sample Date | Client Info | 24 May 2023 | 29 Jul 2022 | --- |
| Machine Age | kms | 702195 | 651698 | --- |
| Oil Age | kms | 50223 | 48882 | --- |
| Oil Changed | Client Info | Changed | Changed | --- |
| Sample Status | | MARGINAL | NORMAL | --- |

WEAR METALS

| method | limit/base | current | history 1 | history 2 | | |
|-----------|-------------|---------------|-----------|--------------|-----|-----|
| PQ | ASTM D8184* | >50 | 0 | 0 | --- | |
| Iron | ppm | ASTM D5185(m) | >160 | 81 | 57 | --- |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | | <1 | <1 | --- |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >50 | 11 | 10 | --- |
| Lead | ppm | ASTM D5185(m) | >50 | <1 | 1 | --- |
| Copper | ppm | ASTM D5185(m) | >225 | 10 | 14 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | <1 | --- |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | --- |

ADDITIVES

| method | limit/base | current | history 1 | history 2 | | |
|------------|------------|---------------|-----------|--------------|------|-----|
| Boron | ppm | ASTM D5185(m) | 78 | 58 | 56 | --- |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | <1 | 1 | --- |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | 0 | 1 | <1 | --- |
| Calcium | ppm | ASTM D5185(m) | 113 | 104 | 70 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 222 | 214 | 222 | --- |
| Zinc | ppm | ASTM D5185(m) | | 5 | 6 | --- |
| Sulfur | ppm | ASTM D5185(m) | 1326 | 1653 | 2171 | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | --- |

CONTAMINANTS

| method | limit/base | current | history 1 | history 2 | | |
|-----------|------------|---------------|-----------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | >20 | 18 | 7 | --- |
| Sodium | ppm | ASTM D5185(m) | | 11 | 20 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 2 | --- |
| Fuel | % | ASTM D7593* | | ▲ 2.8 | --- | --- |

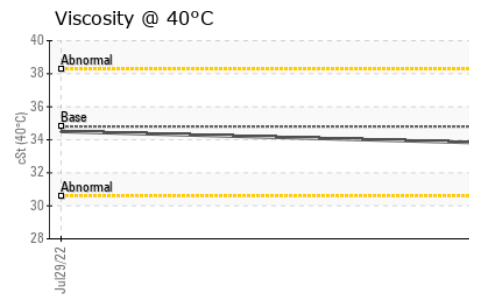
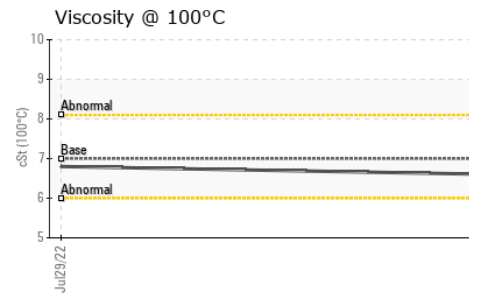
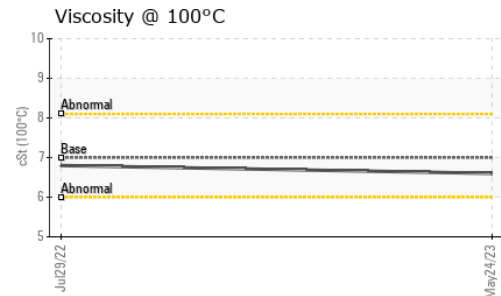
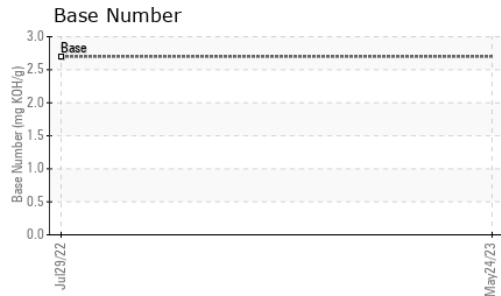
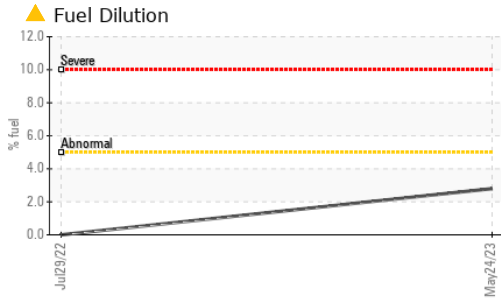
INFRA-RED

| method | limit/base | current | history 1 | history 2 | | |
|-----------|------------|-------------|-----------|-------------|-----|-----|
| Soot % | % | ASTM D7844* | | 0 | --- | --- |
| Nitration | Abs/cm | ASTM D7624* | | 5.7 | --- | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | | 30.2 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history 1 | history 2 | | |
|------------------|------------|-------------|-----------|-------------|------|-----|
| Oxidation | Abs/.1mm | ASTM D7414* | | 40.4 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 1.4 | 1.39 | 1.79 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896* | 2.7 | 1.59 | --- | --- |

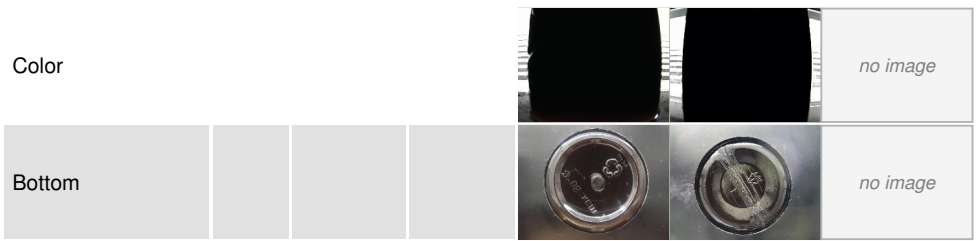
OIL ANALYSIS REPORT



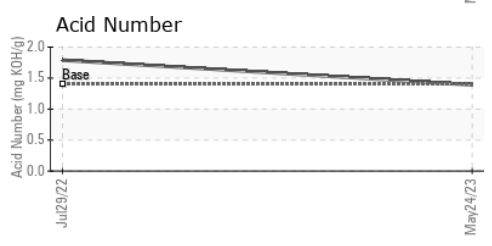
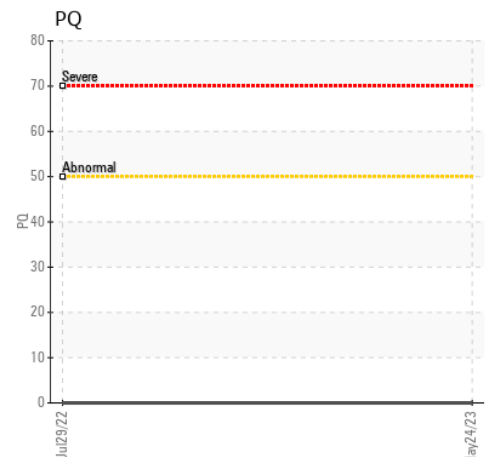
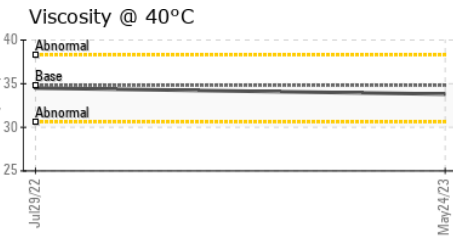
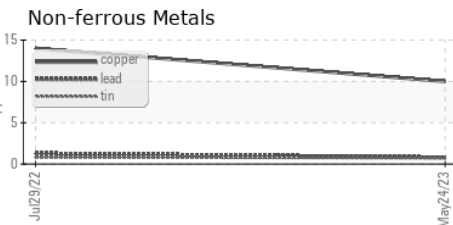
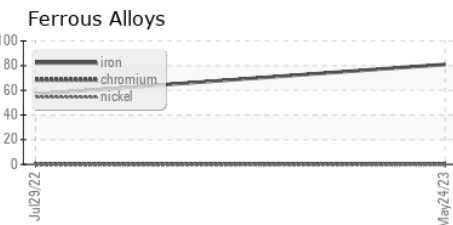
| VISUAL | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| White Metal | scalar | Visual* | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- |
| 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* | >0.1 | NEG | --- |
| Free Water | scalar | Visual* | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history 1 | history 2 |
|----------------------|--------|---------------|---------|-----------|-----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 34.8 | 33.8 | 34.5 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 7.0 | 6.6 | 6.8 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 167 | 154 | 159 |

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0061465 **Received** : 05 Jul 2023
Lab Number : 02568028 **Diagnosed** : 07 Jul 2023
Unique Number : 5605074 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, TAN Man, TBN, VI)

Metrobus Transit
 25 Messenger Drive
 St. John's, NL
 CA A1B 0H6
 Contact: Danny Oliver
 danny.oliver@metrobus.com
 T: (709)570-2025
 F:

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.