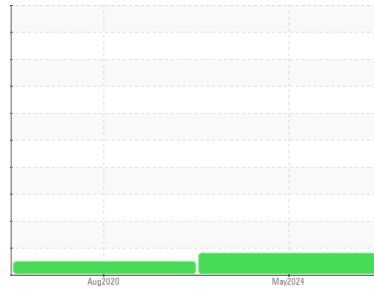




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

FREIGHTLINER 1154

Component

Transmission (Manual)

Fluid

CHEVRON SYNTHETIC AMT XDT AUTO 75W90 (12 LTR)

DIAGNOSIS

▲ Recommendation

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

▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WC0851789 | WC0440941 | --- |
| Sample Date | Client Info | | 29 May 2024 | 10 Aug 2020 | --- |
| Machine Age | kms | Client Info | 975587 | 481572 | --- |
| Oil Age | kms | Client Info | 475587 | 481572 | --- |
| Oil Changed | Client Info | | Changed | Changed | --- |
| Sample Status | | | ABNORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|--------------|----------|-----|
| Iron | ppm | ASTM D5185m | >200 | 85 | 84 | --- |
| Chromium | ppm | ASTM D5185m | >5 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | ▲ 47 | 53 | --- |
| Lead | ppm | ASTM D5185m | >45 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >225 | 6 | 2 | --- |
| Tin | ppm | ASTM D5185m | >10 | 5 | 8 | --- |
| Antimony | ppm | ASTM D5185m | | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|-------------|---------|--------------|----------|-----|
| Boron | ppm | ASTM D5185m | | 0 | 10 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 27 | 30 | --- |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Calcium | ppm | ASTM D5185m | | 44 | 70 | --- |
| Phosphorus | ppm | ASTM D5185m | | 918 | 864 | --- |
| Zinc | ppm | ASTM D5185m | | 2 | 10 | --- |
| Sulfur | ppm | ASTM D5185m | | 14136 | 9735 | --- |

CONTAMINANTS

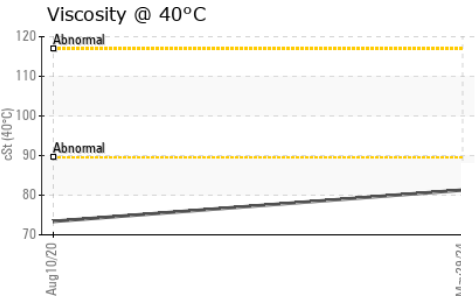
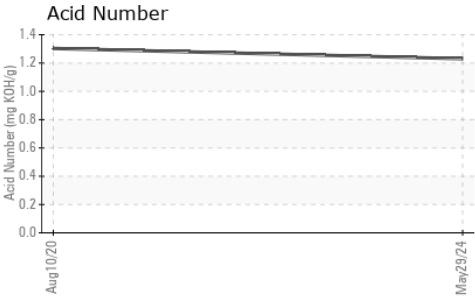
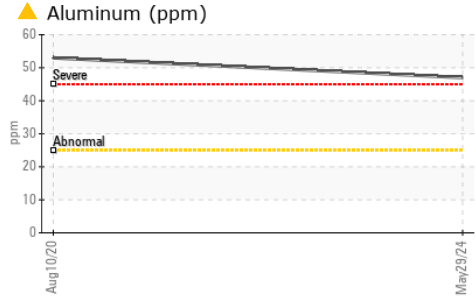
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|--------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >125 | 8 | 9 | --- |
| Sodium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|------------------|----------|------------|---------|-------------|----------|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.23 | 1.303 | --- |



OIL ANALYSIS REPORT

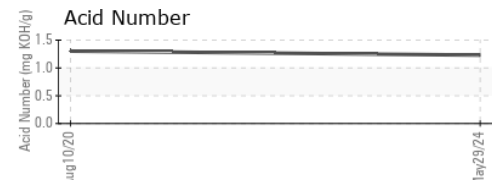
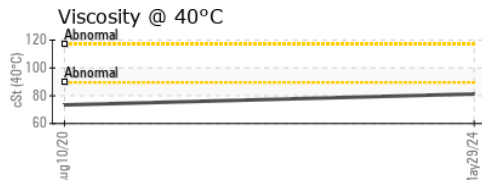
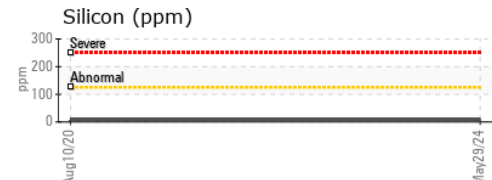
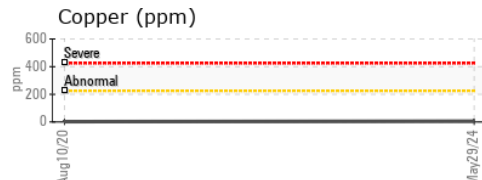
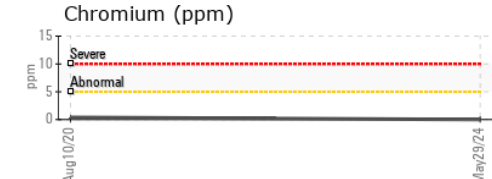
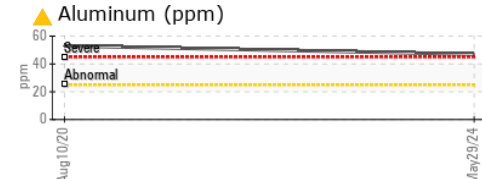
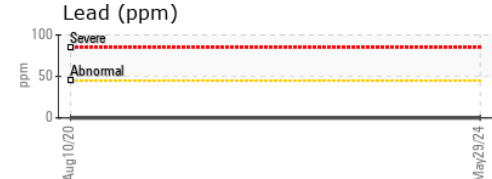
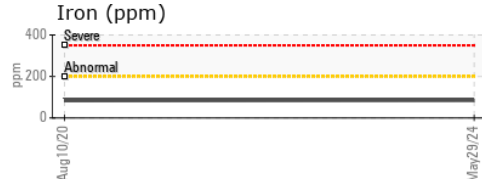


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | history1 | history2 |
|------------------|--------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 81.3 | 73.4 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0851789 **Received** : 06 Jun 2024
Lab Number : 06201621 **Tested** : 09 Jun 2024
Unique Number : 11063744 **Diagnosed** : 09 Jun 2024 - Don Baldrige
Test Package : MOB 2

LYNDEN TRANSPORT - SPRUCE GROVE
 27340 ACHESON RD, ACHESON INDUSTRIAL PARK
 ACHESON, AB
 CA T7X 6B1
 Contact: Mathieu Carby
 mcarby@lynden.com

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)