



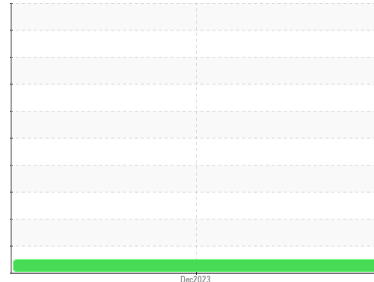
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
WMR-Salt Lake City
 Machine Id
315503 VOLVO EC380E 315503
 Component
Rear Right Wheel Hub
 Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)



DIAGNOSIS

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 condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | DJJ0009442 | --- | --- |
| Sample Date | Client Info | | | 28 Dec 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 601 | --- | --- |
| Oil Age | hrs | Client Info | | 601 | --- | --- |
| Oil Changed | Client Info | | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.2 | NEG | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|------------|----------|----------|
| Iron | ppm | ASTM D5185m | >500 | 151 | --- | --- |
| Chromium | ppm | ASTM D5185m | >8 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | --- | --- |

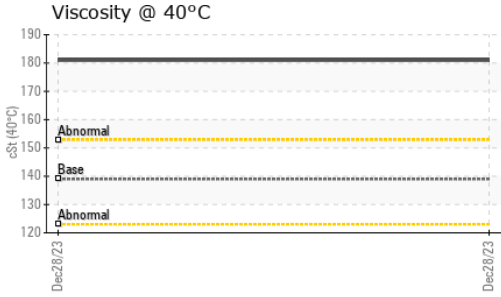
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 379 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0.8 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | 3 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 31 | 2 | --- | --- |
| Calcium | ppm | ASTM D5185m | 38 | 7 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1077 | 319 | --- | --- |
| Zinc | ppm | ASTM D5185m | 46 | 0 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 23526 | 15265 | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 3 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | --- | --- |

| 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 | >0.2 | NEG | --- | --- |
| Free Water | scalar | *Visual | | NEG | --- | --- |



OIL ANALYSIS REPORT



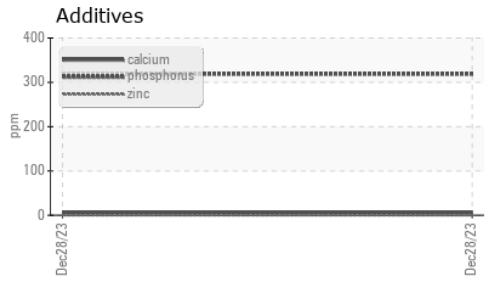
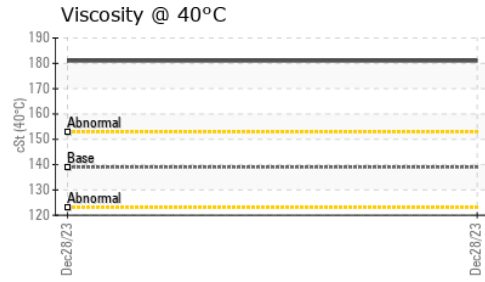
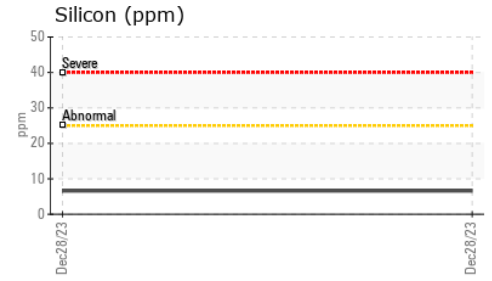
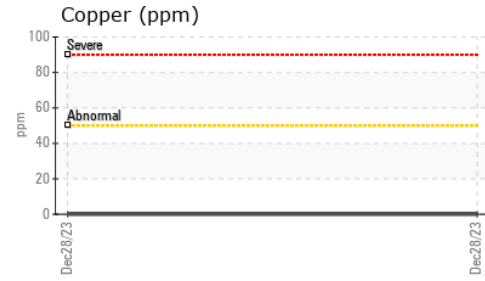
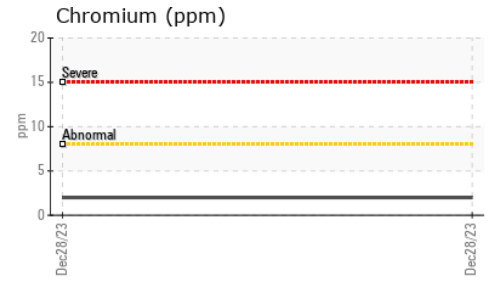
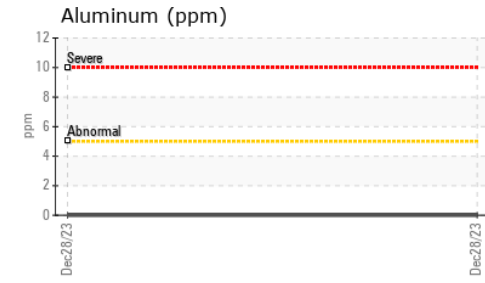
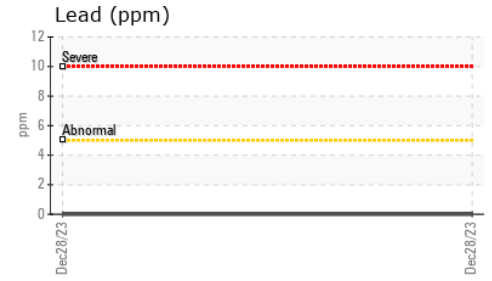
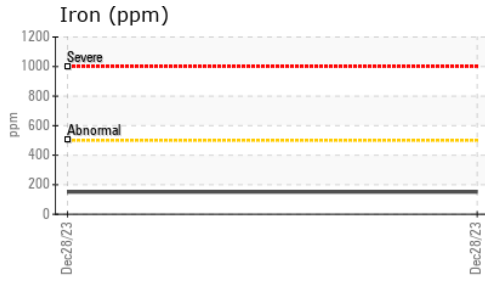
FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|-------------|-------------------|------------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 139 | 181 | --- | --- |

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0009442 **Received** : 09 Jan 2024
Lab Number : **06056102** **Diagnosed** : 10 Jan 2024
Unique Number : 10822051 **Diagnostician** : Angela Borella
Test Package : MOBCE

WESTERN METALS RECYCLING - SALT LAKE CITY
 4221 WEST 700 SOUTH
 SALT LAKE CITY, UT
 US 84104
 Contact: TIMOTHY SHEFFIELD
 timothy.sheffield@wmrecycling.com
 T: (801)373-4225
 F: (801)975-9590

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)