



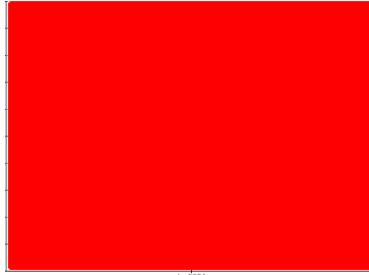
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
SL09
Component
Transmission
Fluid
SAE 30W (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The fluid change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as (GENERIC) SAE 30W, however, a fluid match indicates that this fluid is SAE 20 Diesel Engine Oil. Please confirm the fluid type and grade on your next sample. Please specify the component make and model with your next sample.

Wear

Lead ppm levels are severe. Copper ppm levels are abnormal. Clutch disc wear or oil cooler leaching indicated.

Contamination

Test for glycol is positive. There is a light concentration of glycol present in the fluid. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0886133 | --- | --- |
| Sample Date | Client Info | | 10 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|------------|----------|
| Iron | ppm | ASTM D5185(m) | >200 | 11 | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >50 | 6 | --- |
| Lead | ppm | ASTM D5185(m) | >50 | 165 | --- |
| Copper | ppm | ASTM D5185(m) | >200 | 276 | --- |
| 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) | | 64 | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | --- |
| Manganese | ppm | ASTM D5185(m) | | 0 | --- |
| Magnesium | ppm | ASTM D5185(m) | | 12 | --- |
| Calcium | ppm | ASTM D5185(m) | | 3548 | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 1048 | --- |
| Zinc | ppm | ASTM D5185(m) | | 1218 | --- |
| Sulfur | ppm | ASTM D5185(m) | | 3576 | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | --- |

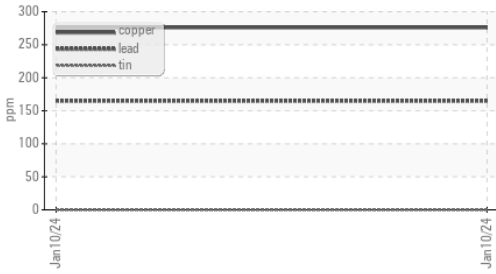
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185(m) | >50 | 5 | --- |
| Sodium | ppm | ASTM D5185(m) | | 6 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 5 | --- |
| Water | % | ASTM D6304* | >0.1 | 0.025 | --- |
| ppm Water | ppm | ASTM D6304* | >1000 | 257 | --- |
| Glycol | % | ASTM D7922* | | 0.013 | --- |

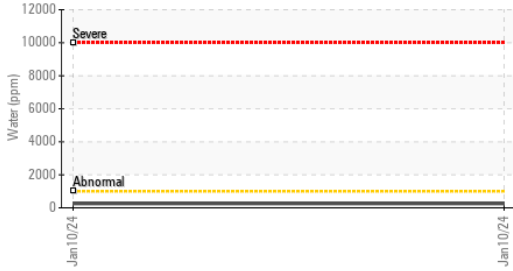


OIL ANALYSIS REPORT

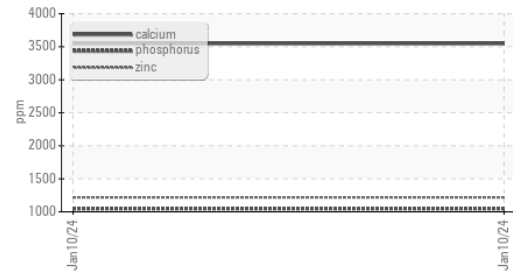
Non-ferrous Metals



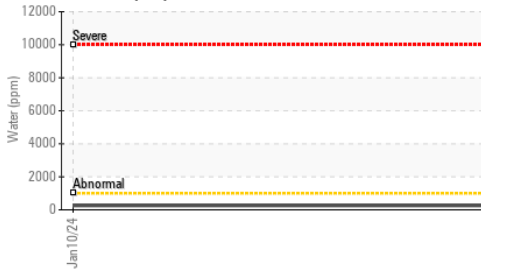
Water (KF)



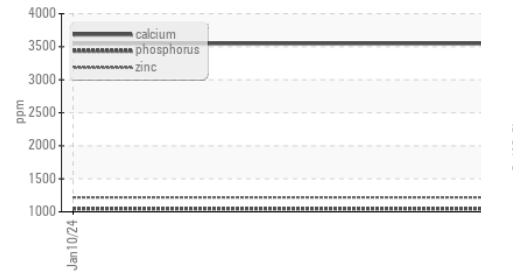
Additives



Water (KF)



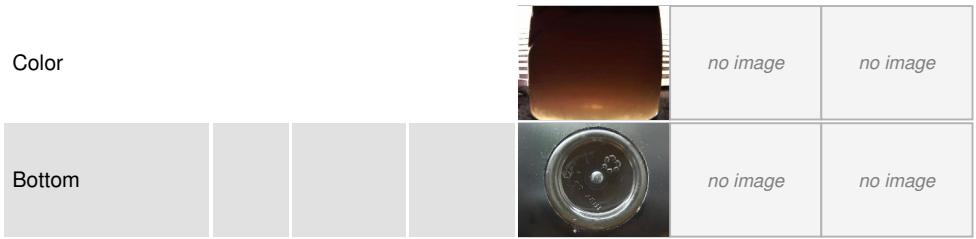
Additives



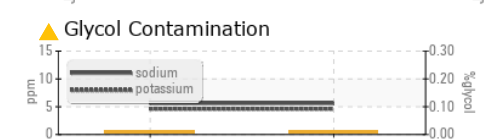
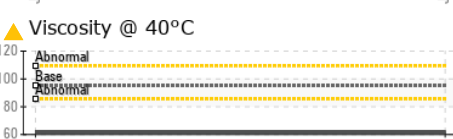
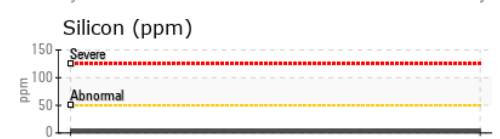
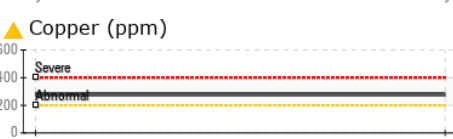
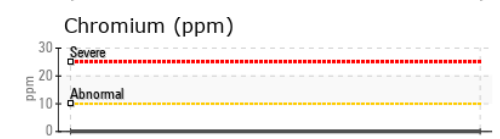
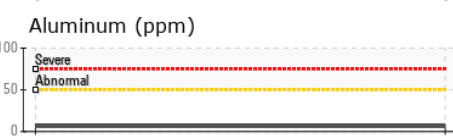
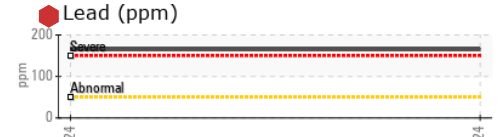
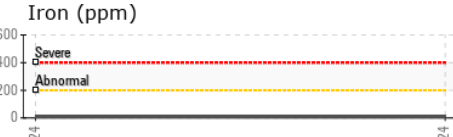
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- |
| Silt | scalar | Visual* | NONE | NONE | --- |
| Debris | scalar | Visual* | NONE | NONE | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- |
| Appearance | scalar | Visual* | NORML | ▲ HAZY | --- |
| 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 D7279(m) | 95.0 | ▲ 61.8 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886133 **Received** : 11 Jan 2024
Lab Number : 02608240 **Diagnosed** : 15 Jan 2024
Unique Number : 5709326 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: GLYCOL, KF)

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 T: (705)567-5208
 F: (705)567-5221

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.