

OIL ANALYSIS REPORT









Machine Id **CATERPILLAR 320B EXC01**

Component
Swing Drive

Fluid GEAR OIL SAE 80W90 (

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

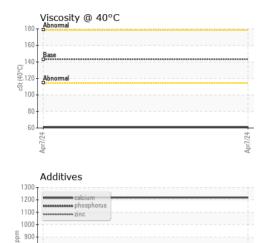
Fluid Condition

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

| (GAL) | | | | Apr2024 | | |
|---------------|--------|---------------|------------|-------------|----------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0920169 | | |
| Sample Date | | Client Info | | 07 Apr 2024 | | |
| Machine Age | hrs | Client Info | | 19178 | | |
| Dil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Not Changd | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185(m) | >400 | 50 | | |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | | |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | | |
| - Titanium | ppm | ASTM D5185(m) | | <1 | | |
| Silver | ppm | ASTM D5185(m) | | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >25 | 2 | | |
| .ead | ppm | ASTM D5185(m) | >50 | 0 | | |
| Copper | ppm | ASTM D5185(m) | >200 | 3 | | |
| - Tin | ppm | ASTM D5185(m) | >10 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | | |
| /anadium | 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) | 400 | 142 | | |
| Barium | ppm | ASTM D5185(m) | 200 | 2 | | |
| Nolybdenum | ppm | ASTM D5185(m) | 12 | 0 | | |
| Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | 12 | 122 | | |
| Calcium | ppm | ASTM D5185(m) | 150 | 1218 | | |
| Phosphorus | ppm | ASTM D5185(m) | 1650 | 753 | | |
| Zinc | ppm | ASTM D5185(m) | 125 | 597 | | |
| Sulfur | ppm | ASTM D5185(m) | 22500 | 10811 | | |
| ithium | ppm | ASTM D5185(m) | | 2 | | |
| CONTAMINANTS | 6 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >50 | 11 | | |
| Sodium | ppm | ASTM D5185(m) | >170 | 2 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | | |

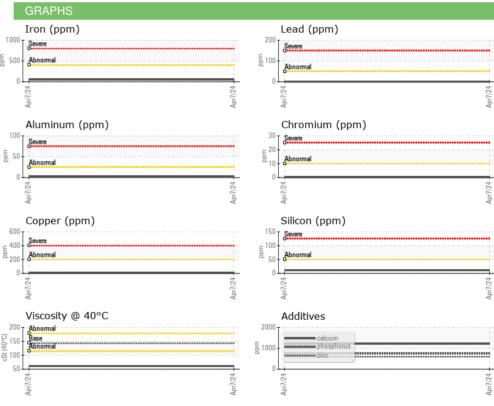


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| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | | |
| Yellow Metal | scalar | Visual* | NONE | NONE | | |
| Precipitate | scalar | Visual* | NONE | NONE | | |
| Silt | scalar | Visual* | NONE | NONE | | |
| Debris | scalar | Visual* | NONE | NONE | | |
| Sand/Dirt | scalar | Visual* | NONE | VLITE | | |
| Appearance | scalar | Visual* | NORML | NORML | | |
| Odor | scalar | Visual* | NORML | NORML | | |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | | |
| Free Water | scalar | Visual* | | NEG | | |
| FLUID PROPERT | TES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 143 | 61.1 | | |
| SAMPLE IMAGES | | method | limit/base | current | history1 | historv2 |

| SAMI LE MAGLO | | | |
|---------------|--|----------|----------|
| Color | | no image | no image |
| Bottom | | no image | no image |
| GRAPHS | | | |





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0920169 Lab Number : 02628560 Unique Number : 5761692

Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 12 Apr 2024 : 12 Apr 2024 Diagnosed : 12 Apr 2024 - Wes Davis

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX Kirkland Lake, ON

CA P2N 3J1 Contact: Mitch Lamontagne AEM_KL_macassaoilsampleresults@agnicoeagle.com

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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