

OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR R1600 SCP210 Component

Rear Right Planetary Fluid

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

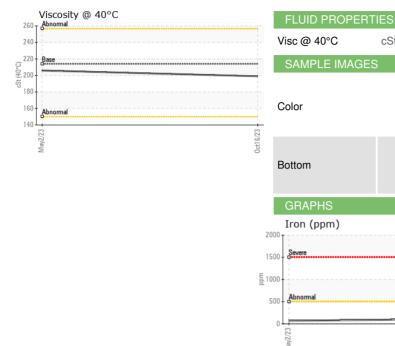
| DIAGNOSIS | SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|---|--|--|--|---|---|--|--------------------------------------|
| ecommendation | Sample Number | | Client Info | | WC0840193 | WC0766043 | |
| esample at the next service interval to monitor. | Sample Date | | Client Info | | 16 Oct 2023 | 02 May 2023 | |
| ear | Machine Age | hrs | Client Info | | 10970 | 0 | |
| component wear rates are normal. | Oil Age | hrs | Client Info | | 0 | 0 | |
| ntamination | Oil Changed | | Client Info | | N/A | N/A | |
| ere is no indication of any contamination in the | Sample Status | | | | NORMAL | NORMAL | |
| l. | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Fluid Condition The condition of the oil is acceptable for the time in service. | | | | | | | |
| | Iron | ppm | ASTM D5185(m) | | 119 | 68 | |
| | Chromium | ppm | ASTM D5185(m) | | <1 | <1 | |
| | Nickel | ppm | ASTM D5185(m) | >10 | 1 | <1 | |
| | Titanium | ppm | ASTM D5185(m) | | 0 | <1 | |
| | Silver | ppm | ASTM D5185(m) | | <1 | 0 | |
| | Aluminum | ppm | ASTM D5185(m) | | 3 | 2 | |
| | Lead | ppm | ASTM D5185(m) | | <1 | <1 | |
| | Copper | ppm | ASTM D5185(m) | >75 | 2 | <1 | |
| | Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | |
| | Antimony | ppm | ASTM D5185(m) | >5 | <1 | 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 | history1 | history2 |
| | Boron | ppm | ASTM D5185(m) | 2 | 6 | 5 | |
| | Barium | ppm | ASTM D5185(m) | | <1 | 0 | |
| | Molybdenum | ppm | ASTM D5185(m) | | 1 | 1 | |
| | Manganese | ppm | ASTM D5185(m) | | <1 | 1 | |
| | Magnesium | ppm | ASTM D5185(m) | | 19 | 14 | |
| | Calcium | ppm | ASTM D5185(m) | | 4316 | 4324 | |
| | Phosphorus | ppm | ASTM D5185(m) | | 885 | 909 | |
| | Zinc | ppm | ASTM D5185(m) | | 1045 | 1012 | |
| | Sulfur | ppm | () | 7086 | 7728 | 6998 | |
| | Lithium | ppm | ASTM D5185(m) | 7000 | 2 | 2 | |
| | | | | | | | _ |
| | CONTAMINANTS | > | method | | current | history1 | history2 |
| | | | | | | | |
| | Silicon | ppm | ASTM D5185(m) | >75 | 44 | 38 | |
| | Sodium | ppm | ASTM D5185(m) | | 5 | 4 | |
| | | | . , | | | | |
| | Sodium | ppm | ASTM D5185(m) | | 5 1 | 4 | |
| | Sodium Potassium | ppm | ASTM D5185(m) ASTM D5185(m) | >20 | 5 1 | 4 <1 | |
| | Sodium Potassium VISUAL | ppm ppm scalar | ASTM D5185(m) ASTM D5185(m) method | >20 limit/base | 5 1 current | 4 <1 history1 | history2 |
| | Sodium Potassium VISUAL White Metal | ppm ppm scalar | ASTM D5185(m) ASTM D5185(m) method Visual* | >20 limit/base NONE | 5 1 current NONE | 4 <1 history1 NONE | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal | ppm ppm scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* | >20 limit/base NONE NONE | 5 1 current NONE NONE | 4 <1 history1 NONE NONE | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal Precipitate | ppm ppm scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* | >20 limit/base NONE NONE NONE | 5 1 current NONE NONE NONE | 4 <1 NONE NONE NONE NONE | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* Visual* Visual* | >20 limit/base NONE NONE NONE NONE NONE | 5 1 Current NONE NONE NONE NONE NONE | 4 <1 NONE NONE NONE NONE NONE NONE | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* Visual* Visual* Visual* | >20 limit/base NONE NONE NONE NONE NONE | 5 1 Current NONE NONE NONE NONE NONE | 4 <1 NONE NONE NONE NONE NONE NONE | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* Visual* Visual* Visual* Visual* | >20 limit/base NONE NONE NONE NONE NONE NONE NORE | 5 1 Current NONE NONE NONE NONE NONE NONE | 4 <1 NONE NONE NONE NONE NONE NONE NONE NON | history2 |
| | Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* Visual* Visual* Visual* | >20 limit/base NONE NONE NONE NONE NONE | 5 1 Current NONE NONE NONE NONE NONE | 4 <1 NONE NONE NONE NONE NONE NONE | history2 |

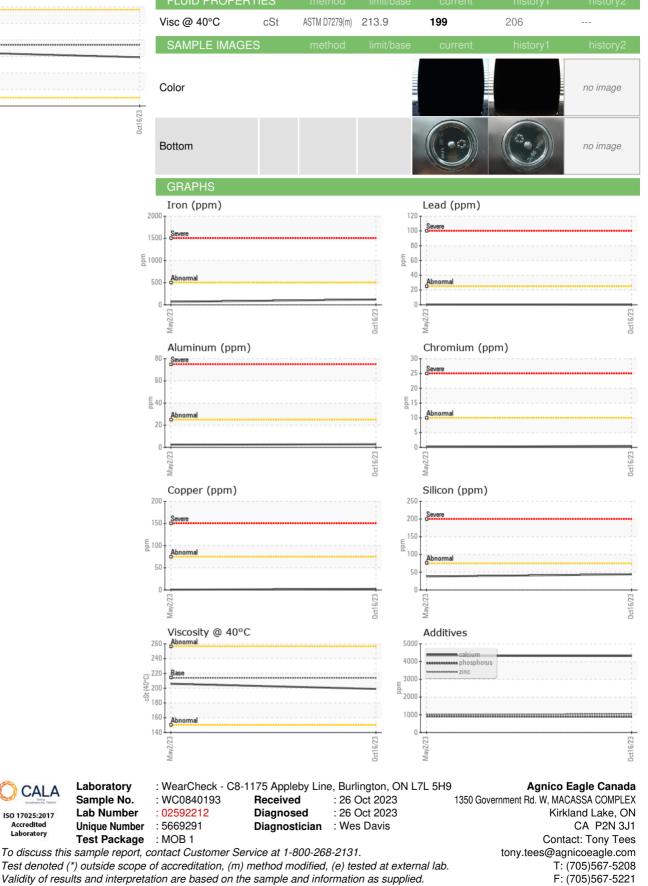
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Contact/Location: Tony Tees - KIR370KIR



OIL ANALYSIS REPORT





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