


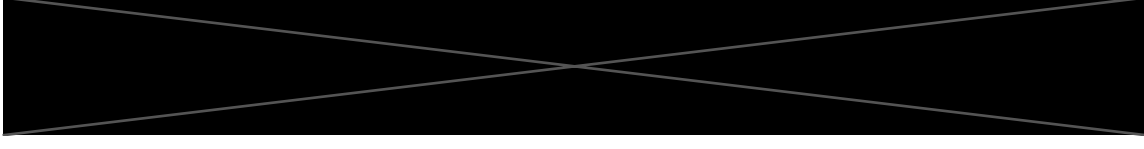


# OIL REPORT

LAB NUMBER:   
 REPORT DATE: 3/11/2022  
 CODE: 20/698

UNIT ID: 19 RDX  
 CLIENT ID:   
 PAYMENT: 

|             |   |                                 |
|-------------|---|---------------------------------|
| <b>UNIT</b> | MAKE/MODEL: Honda 2.0L (K20C) Turbo 4 cyl | OIL TYPE & GRADE: Mobil 1 0W/20 |
|             | FUEL TYPE: Gasoline (Unleaded)            | OIL USE INTERVAL: 5,000 Miles   |
|             | ADDITIONAL INFO:                          |                                 |

|               |  |
|---------------|--|
| <b>CLIENT</b> |  |
|---------------|--|

**COMMENTS** KEVIN: This sample looks pretty good overall. The low flashpoint does show fuel dilution in the oil, at 1.8%, but normally that's not a problem. It takes upwards of 2.0% fuel dilution, lingering across a couple samples before we think the fuel is a problem, so let's just see if this is something that persists going forward. In the meantime, the wear metals all look great compared to the universal averages, which, for this engine type are based on a comparable 5,500-mile run. No other contamination turned up and the TBN tested appropriately strong at 3.8. This engine looks fine.

|                                      | MI/HR on Oil      | 5,000     | UNIT / LOCATION AVERAGES |  |  |  |     | UNIVERSAL AVERAGES |
|--------------------------------------|-------------------|-----------|--------------------------|--|--|--|-----|--------------------|
|                                      | MI/HR on Unit     | 45,352    |                          |  |  |  |     |                    |
|                                      | Sample Date       | 2/19/2022 |                          |  |  |  |     |                    |
|                                      | Make Up Oil Added | 0 qts     |                          |  |  |  |     |                    |
| <b>ELEMENTS IN PARTS PER MILLION</b> | ALUMINUM          | 4         | 4                        |  |  |  |     | 9                  |
|                                      | CHROMIUM          | 0         | 0                        |  |  |  |     | 0                  |
|                                      | IRON              | 6         | 6                        |  |  |  |     | 12                 |
|                                      | COPPER            | 0         | 0                        |  |  |  |     | 4                  |
|                                      | LEAD              | 0         | 0                        |  |  |  |     | 0                  |
|                                      | TIN               | 0         | 0                        |  |  |  |     | 0                  |
|                                      | MOLYBDENUM        | 80        | 80                       |  |  |  |     | 151                |
|                                      | NICKEL            | 0         | 0                        |  |  |  |     | 0                  |
|                                      | MANGANESE         | 0         | 0                        |  |  |  |     | 1                  |
|                                      | SILVER            | 0         | 0                        |  |  |  |     | 0                  |
|                                      | TITANIUM          | 0         | 0                        |  |  |  |     | 4                  |
|                                      | POTASSIUM         | 0         | 0                        |  |  |  |     | 2                  |
|                                      | BORON             | 41        | 41                       |  |  |  |     | 82                 |
|                                      | SILICON           | 19        | 19                       |  |  |  |     | 22                 |
|                                      | SODIUM            | 2         | 2                        |  |  |  |     | 8                  |
|                                      | CALCIUM           | 1059      | 1059                     |  |  |  |     | 1302               |
|                                      | MAGNESIUM         | 674       | 674                      |  |  |  |     | 602                |
| PHOSPHORUS                           | 639               | 639       |                          |  |  |  | 690 |                    |
| ZINC                                 | 744               | 744       |                          |  |  |  | 777 |                    |
| BARIUM                               | 0                 | 0         |                          |  |  |  | 0   |                    |

Values Should Be\*

| <b>PROPERTIES</b> | SUS Viscosity @ 210°F | 47.4 | 46-56   |  |  |  |  |
|-------------------|-----------------------|------|---------|--|--|--|--|
|                   | cSt Viscosity @ 100°C | 6.47 | 6.0-9.4 |  |  |  |  |
|                   | Flashpoint in °F      | 350  | >385    |  |  |  |  |
|                   | Fuel %                | 1.8  | <2.0    |  |  |  |  |
|                   | Antifreeze %          | 0.0  | 0.0     |  |  |  |  |
|                   | Water %               | 0.0  | 0.0     |  |  |  |  |
|                   | Insolubles %          | 0.2  | <0.6    |  |  |  |  |
|                   | TBN                   | 3.8  | >1.0    |  |  |  |  |
|                   | TAN                   |      |         |  |  |  |  |
|                   | ISO Code              |      |         |  |  |  |  |

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com