# BLACKSTONE LABORATORIES

## OIL REPORT

**LAB NUMBER:** G59869  **UNIT ID:** 14 EVO X
**REPORT DATE:** 2/12/2015  **CLIENT ID:** 80202
**CODE:** 63/75  **PAYMENT:** Prepaid

**UNIT**

MAKE/MODEL:  Mitsubishi 2.0L (4B11T) 4-Cyl Turbo  OIL TYPE & GRADE:  Mobil 1 0W/40
FUEL TYPE:  Gasoline (Unleaded)  OIL USE INTERVAL:  4,000 Miles
ADDITIONAL INFO:

**CLIENT**

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**COMMENTS**

STEVEN:  Potassium and copper were the two elements out of line; this is a curious combination. The copper we can understand -- considering the low mileage on the engine, the copper is probably just wear-in stuff that hasn't washed out yet, and that's fine at this stage of the game. The potassium, though, is harder to explain. Maybe it's coolant, but without sodium (another element in coolant) it's hard to be sure. Maybe it's additive from a grease or lube. If so, it'll wash out. Averages are based on 3,600 miles. Try 4,000 miles again to monitor. Note the low viscosity.

| | | UNIT / LOCATION AVERAGES | | | | | UNIVERSAL AVERAGES |
|---|---|---|---|---|---|---|---|
| MI/HR on Oil | 4,000 | | | | | | |
| MI/HR on Unit | 9,120 | | | | | | |
| Sample Date | 02/01/15 | | | | | | |
| Make Up Oil Added | 4.7 qts | | | | | | |
| | | | | | | | |
| ALUMINUM | 7 | 7 | | | | | 6 |
| CHROMIUM | 1 | 1 | | | | | 1 |
| IRON | 18 | 18 | | | | | 17 |
| COPPER | **6** | 6 | | | | | 3 |
| LEAD | 1 | 1 | | | | | 3 |
| TIN | 1 | 1 | | | | | 1 |
| MOLYBDENUM | 79 | 79 | | | | | 77 |
| NICKEL | 0 | 0 | | | | | 0 |
| MANGANESE | 0 | 0 | | | | | 1 |
| SILVER | 0 | 0 | | | | | 0 |
| TITANIUM | 0 | 0 | | | | | 2 |
| POTASSIUM | **22** | 22 | | | | | 4 |
| BORON | 168 | 168 | | | | | 74 |
| SILICON | 11 | 11 | | | | | 12 |
| SODIUM | 4 | 4 | | | | | 33 |
| CALCIUM | 3207 | 3207 | | | | | 2238 |
| MAGNESIUM | 19 | 19 | | | | | 262 |
| PHOSPHORUS | 907 | 907 | | | | | 822 |
| ZINC | 1018 | 1018 | | | | | 910 |
| BARIUM | 0 | 0 | | | | | 0 |

**ELEMENTS IN PARTS PER MILLION**

| | | Values Should Be* | | | | | |
|---|---|---|---|---|---|---|---|
| SUS Viscosity @ 210°F | **63.3** | 65-76 | | | | | |
| cSt Viscosity @ 100°C | **11.14** | 11.6-14.8 | | | | | |
| Flashpoint in °F | 400 | >375 | | | | | |
| Fuel % | <0.5 | <2.0 | | | | | |
| Antifreeze % | **?** | 0 | | | | | |
| Water % | 0.0 | <0.1 | | | | | |
| Insolubles % | TR | <0.6 | | | | | |
| TBN | | | | | | | |
| TAN | | | | | | | |
| ISO Code | | | | | | | |

**PROPERTIES**

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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