



OIL REPORT

LAB NUMBER:
 REPORT DATE: 5/6/2008
 CODE:

UNIT ID:
 CLIENT ID:
 PAYMENT:

| | | |
|-------------|--|--|
| UNIT | MAKE/MODEL: Cooper, Mini 1.6L TriTec 4-cyl | OIL TYPE & GRADE: Castrol Syntec 5W/30 |
| | FUEL TYPE: Gasoline (Unleaded) | OIL USE INTERVAL: 7,549 Miles |
| | ADDITIONAL INFO: Mini Cooper | |

| | |
|---------------|------------|
| CLIENT | PHONE: |
| | FAX: |
| | ALT PHONE: |
| | EMAIL: |

COMMENTS
 Thanks for the note about your engines history. We had expected to find wear a bit higher with all the long oil runs that you've used in the past but everything looks good here. Universal averages for the BMW 1.6L are based on an oil run of ~7,200 miles. Only a slightly high viscosity kept this from being a perfect report. It read in the low 5W/40 range but this doesn't seem to have bothered your engine. The TBN read 3.4 so you still had some active additive remaining. 1.0 is low. Go back up to 10,000 miles on the oil and check back for another look at wear.

| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil | 7,549 | UNIT / LOCATION AVERAGES | | | | | UNIVERSAL AVERAGES |
|--------------------------------------|-------------------|----------|---------------------------------|--|--|--|--|---------------------------|
| | MI/HR on Unit | 35,204 | | | | | | |
| | Sample Date | 04/09/08 | | | | | | |
| | Make Up Oil Added | 0 qts | | | | | | |
| | ALUMINUM | 4 | 4 | | | | | 4 |
| | CHROMIUM | 1 | 1 | | | | | 1 |
| | IRON | 18 | 18 | | | | | 12 |
| | COPPER | 13 | 13 | | | | | 9 |
| | LEAD | 2 | 2 | | | | | 3 |
| | TIN | 1 | 1 | | | | | 1 |
| | MOLYBDENUM | 141 | 141 | | | | | 115 |
| | NICKEL | 2 | 2 | | | | | 1 |
| | MANGANESE | 1 | 1 | | | | | 1 |
| | SILVER | 0 | 0 | | | | | 0 |
| | TITANIUM | 0 | 0 | | | | | 0 |
| | POTASSIUM | 1 | 1 | | | | | 2 |
| | BORON | 55 | 55 | | | | | 45 |
| | SILICON | 4 | 4 | | | | | 7 |
| | SODIUM | 11 | 11 | | | | | 5 |
| | CALCIUM | 2151 | 2151 | | | | | 2641 |
| | MAGNESIUM | 14 | 14 | | | | | 66 |
| | PHOSPHORUS | 866 | 866 | | | | | 729 |
| | ZINC | 1105 | 1105 | | | | | 883 |
| | BARIIUM | 0 | 0 | | | | | 1 |

Values Should Be*

| PROPERTIES | SUS Viscosity @ 210°F | 65.0 | 56-63 | | | | |
|-------------------|-----------------------|-------|----------|--|--|--|--|
| | cSt Viscosity @ 100°C | 11.60 | 9.1-11.3 | | | | |
| | Flashpoint in °F | 400 | >365 | | | | |
| | Fuel % | <0.5 | <2.0 | | | | |
| | Antifreeze % | 0.0 | 0.0 | | | | |
| | Water % | 0.0 | <0.1 | | | | |
| | Insolubles % | 0.1 | <0.6 | | | | |
| | TBN | 3.4 | | | | | |
| | 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