



# OIL REPORT

LAB NUMBER: F26974      UNIT ID: 11 S4  
 REPORT DATE: 10/30/2012      CLIENT ID:  
 CODE: 20/501      PAYMENT:

|      |   |  |
|------|---|--|
| UNIT | MAKE/MODEL: Audi 3.0L TFSI Supercharged | OIL TYPE & GRADE: Castrol Syntec 5W/40 |
|      | FUEL TYPE: Gasoline (Unleaded)          | OIL USE INTERVAL: 4,850 Miles          |
|      | ADDITIONAL INFO:                        |  |

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

**COMMENTS**  
 This interval seems to have worked quite well for your Audi. All metals are in the average range, which means that engine parts were wearing well during this interval. Sometimes long intervals can allow iron to accumulate in the oil, and while that seems to be the case here since iron did go up a little, it's not a problem since all other metals are nice and low (most actually improved since last time). The viscosity was a little low, but that's harmless, as far as we can tell. The TBN is still good at 3.7. If you'd like, try up to 6,500 or 7,000 miles next time.

| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil      | 4,850    | UNIT / LOCATION AVERAGES | 2,500    |  |  |  |      | UNIVERSAL AVERAGES |
|-------------------------------|-------------------|----------|--------------------------|----------|--|--|--|------|--------------------|
|                               | MI/HR on Unit     | 9,850    |                          | 5,000    |  |  |  |      |                    |
|                               | Sample Date       | 10/28/12 |                          | 01/11/12 |  |  |  |      |                    |
|                               | Make Up Oil Added | 0.5 qt   |                          | 0 qts    |  |  |  |      |                    |
| ALUMINUM                      | 6                 | 7        | 7                        |          |  |  |  | 4    |                    |
| CHROMIUM                      | 1                 | 1        | 0                        |          |  |  |  | 0    |                    |
| IRON                          | 24                | 21       | 18                       |          |  |  |  | 14   |                    |
| COPPER                        | 8                 | 11       | 13                       |          |  |  |  | 8    |                    |
| LEAD                          | 0                 | 1        | 1                        |          |  |  |  | 1    |                    |
| TIN                           | 1                 | 2        | 2                        |          |  |  |  | 1    |                    |
| MOLYBDENUM                    | 1                 | 1        | 1                        |          |  |  |  | 29   |                    |
| NICKEL                        | 1                 | 1        | 0                        |          |  |  |  | 0    |                    |
| MANGANESE                     | 2                 | 3        | 3                        |          |  |  |  | 2    |                    |
| SILVER                        | 0                 | 0        | 0                        |          |  |  |  | 0    |                    |
| TITANIUM                      | 0                 | 0        | 0                        |          |  |  |  | 0    |                    |
| POTASSIUM                     | 0                 | 1        | 2                        |          |  |  |  | 2    |                    |
| BORON                         | 36                | 25       | 14                       |          |  |  |  | 45   |                    |
| SILICON                       | 18                | 25       | 31                       |          |  |  |  | 18   |                    |
| SODIUM                        | 23                | 25       | 27                       |          |  |  |  | 20   |                    |
| CALCIUM                       | 2259              | 1820     | 1381                     |          |  |  |  | 1838 |                    |
| MAGNESIUM                     | 248               | 467      | 686                      |          |  |  |  | 144  |                    |
| PHOSPHORUS                    | 874               | 856      | 838                      |          |  |  |  | 774  |                    |
| ZINC                          | 1070              | 950      | 829                      |          |  |  |  | 885  |                    |
| BARIIUM                       | 0                 | 0        | 0                        |          |  |  |  | 0    |                    |

Values  
Should Be\*

| PROPERTIES | SUS Viscosity @ 210°F | 62.9  | 65-74     | 64.3  |
|------------|-----------------------|-------|-----------|-------|
|            | cSt Viscosity @ 100°C | 11.03 | 11.6-14.3 | 11.43 |
|            | Flashpoint in °F      | 390   | >375      | 325   |
|            | Fuel %                | <0.5  | <2.0      | 2.5   |
|            | Antifreeze %          | 0.0   | 0.0       | 0.0   |
|            | Water %               | 0.0   | <0.1      | 0.0   |
|            | Insolubles %          | 0.3   | <0.6      | 0.2   |
|            | TBN                   | 3.7   | >1.0      | 6.3   |
|            | TAN                   |       |           |       |
|            | ISO Code              |       |           |       |

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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