



OIL REPORT

LAB NUMBER:
REPORT DATE: 7/14/2010
CODE:

UNIT ID: PRIUS-TSXL
CLIENT ID:
PAYMENT:

| | | |
|------|------------------------------|---------------------------------|
| UNIT | MAKE/MODEL: Transaxle Toyota | OIL TYPE & GRADE: Toyota WS ATF |
| | FUEL TYPE: | OIL USE INTERVAL: 19,687 Miles |
| | ADDITIONAL INFO: | |

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

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|----------|--|
| COMMENTS | THOMAS: This is the factory fill of ATF in a transmission with just 19,687 miles run in your Prius, so we believe that the extra wear is due to wear-in of new parts and not an issue. Silicon is also quite high, and likely caused by harmless silicone sealers and sand casted parts used during assembly. The ATF's viscosity was just a touch low, but not an issue. Insolubles (oxidized solids from heat and use) at 0.2% are cause for concern, so we were glad to see that you changed this fluid out. Try running about 12,000 miles on the new fill and then resample for more information. |
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| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil | 19,687 | UNIT / LOCATION AVERAGES | | | | | | | UNIVERSAL AVERAGES |
|-------------------------------|-------------------|----------|--------------------------------|-----|--|--|--|--|--|-----------------------|
| | MI/HR on Unit | 19,687 | | | | | | | | |
| | Sample Date | 05/08/10 | | | | | | | | |
| | Make Up Oil Added | 0 qts | | | | | | | | |
| | ALUMINUM | 110 | | 110 | | | | | | |
| | CHROMIUM | 2 | | 2 | | | | | | |
| | IRON | 55 | | 55 | | | | | | |
| | COPPER | 21 | | 21 | | | | | | |
| | LEAD | 1 | | 1 | | | | | | |
| | TIN | 2 | | 2 | | | | | | |
| | MOLYBDENUM | 1 | | 1 | | | | | | |
| | NICKEL | 3 | | 3 | | | | | | |
| | MANGANESE | 7 | | 7 | | | | | | |
| | SILVER | 0 | | 0 | | | | | | |
| | TITANIUM | 0 | | 0 | | | | | | |
| | POTASSIUM | 4 | | 4 | | | | | | |
| | BORON | 46 | | 46 | | | | | | |
| | SILICON | 132 | | 132 | | | | | | |
| | SODIUM | 3 | | 3 | | | | | | |
| | CALCIUM | 143 | | 143 | | | | | | |
| | MAGNESIUM | 2 | | 2 | | | | | | |
| | PHOSPHORUS | 288 | | 288 | | | | | | |
| | ZINC | 14 | | 14 | | | | | | |
| | BARIUM | 4 | | 4 | | | | | | |

Values
Should Be*

| | | | | | | | | |
|------------|-----------------------|------|---------|--|--|--|--|--|
| PROPERTIES | SUS Viscosity @ 210°F | 42.0 | 43-51 | | | | | |
| | cSt Viscosity @ 100°C | 4.78 | 5.1-7.9 | | | | | |
| | Flashpoint in °F | 380 | >335 | | | | | |
| | Fuel % | - | | | | | | |
| | Antifreeze % | - | | | | | | |
| | Water % | 0.0 | <0.1 | | | | | |
| | Insolubles % | 0.2 | <0.1 | | | | | |
| | TBN | | | | | | | |
| | TAN | | | | | | | |
| | ISO Code | | | | | | | |

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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