



OIL REPORT

LAB NUMBER: F17653
 REPORT DATE: 8/29/2012
 CODE: 20/75

UNIT ID: 05 PRIUS-T
 CLIENT ID: 34020
 PAYMENT: CC: AmEx

| | | |
|-------------|------------------------------------|---------------------------------|
| UNIT | MAKE/MODEL: Transaxle Toyota Prius | OIL TYPE & GRADE: Toyota WS ATF |
| | FUEL TYPE: | OIL USE INTERVAL: 92,833 Miles |
| | ADDITIONAL INFO: | |

| | | |
|---------------|-----------------------|------------------------------|
| CLIENT | CHASE WAITS | PHONE: (740) 215-3023 |
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| | | EMAIL: chase.waits@gmail.com |
| | | |

COMMENTS CHASE: This first sample from your transaxle looks pretty good. Universal averages show typical wear levels for a Prius transaxle after about 43,000 miles on the oil. You ran more than twice that long and iron and copper are the only metals on the high side. Iron tracks with time on the oil, so we're not too concerned about that. Copper is from brass/bronze parts and it normally does not track with time on the oil, so 92K mi may have been a little long. The viscosity is thin for WS ATF, but that's normally not harmful. Try just 75,000 miles on the next fill and check back on copper.

| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil | 92,833 | UNIT / LOCATION AVERAGES | | | | | UNIVERSAL AVERAGES |
|--------------------------------------|-------------------|----------|---------------------------------|--|--|--|-----|---------------------------|
| | MI/HR on Unit | 224,944 | | | | | | |
| | Sample Date | 08/22/12 | | | | | | |
| | Make Up Oil Added | 0 qts | | | | | | |
| ALUMINUM | 46 | 46 | | | | | 46 | |
| CHROMIUM | 2 | 2 | | | | | 2 | |
| IRON | 227 | 227 | | | | | 125 | |
| COPPER | 54 | 54 | | | | | 25 | |
| LEAD | 3 | 3 | | | | | 2 | |
| TIN | 2 | 2 | | | | | 3 | |
| MOLYBDENUM | 1 | 1 | | | | | 0 | |
| NICKEL | 3 | 3 | | | | | 5 | |
| MANGANESE | 3 | 3 | | | | | 3 | |
| SILVER | 0 | 0 | | | | | 0 | |
| TITANIUM | 0 | 0 | | | | | 0 | |
| POTASSIUM | 3 | 3 | | | | | 2 | |
| BORON | 56 | 56 | | | | | 83 | |
| SILICON | 52 | 52 | | | | | 117 | |
| SODIUM | 2 | 2 | | | | | 4 | |
| CALCIUM | 135 | 135 | | | | | 164 | |
| MAGNESIUM | 4 | 4 | | | | | 3 | |
| PHOSPHORUS | 298 | 298 | | | | | 330 | |
| ZINC | 18 | 18 | | | | | 14 | |
| BARIUM | 4 | 4 | | | | | 14 | |

Values Should Be*

| PROPERTIES | SUS Viscosity @ 210°F | 41.7 | 43-52 | | | | |
|-------------------|-----------------------|------|---------|--|--|--|--|
| | cSt Viscosity @ 100°C | 4.68 | 5.1-8.2 | | | | |
| | Flashpoint in °F | 395 | >320 | | | | |
| | Fuel % | - | | | | | |
| | Antifreeze % | - | | | | | |
| | Water % | 0.0 | <0.1 | | | | |
| | Insolubles % | 0.0 | <0.1 | | | | |
| | TBN | | | | | | |
| | TAN | | | | | | |
| | ISO Code | | | | | | |

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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