



OIL REPORT

LAB NUMBER: L00965

UNIT ID: 99 4RUNNER-TR

REPORT DATE: 3/15/2019

CLIENT ID:

CODE: 63/32

PAYMENT: CC: MC

UNIT

MAKE/MODEL: Transmission Toyota A340F
FUEL TYPE:
ADDITIONAL INFO: Tranny installed at 214,000 miles

OIL TYPE & GRADE: ATF
OIL USE INTERVAL: Miles

CLIENT

COMMENTS

ERIC: Most of the wear metals are in decent shape compared to universal averages, which show typical wear for this transmission model after around 38,300 miles on the oil. Iron does show a bit more wear at steel parts than normal, but the extra iron could just be a result of a longer oil run or it could be wear-in if this is the original oil. It's not enough metal to call a problem after one sample. Insolubles are solids caused by excess heat and use, and they are high, so it's good you changed the oil. Do another drain and fill in 5,000-10,000 miles and we'll watch iron/insolubles.

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil		UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
MI/HR on Unit	215,600								
Sample Date	2/28/2019								
Make Up Oil Added									
ALUMINUM	19	19							19
CHROMIUM	1	1							0
IRON	212	212							94
COPPER	102	102							77
LEAD	30	30							21
TIN	2	2							3
MOLYBDENUM	7	7							3
NICKEL	0	0							1
MANGANESE	1	1							1
SILVER	0	0							0
TITANIUM	0	0							0
POTASSIUM	4	4							3
BORON	17	17							65
SILICON	68	68							29
SODIUM	17	17							9
CALCIUM	75	75							127
MAGNESIUM	10	10							9
PHOSPHORUS	115	115							273
ZINC	85	85							48
BARIUM	0	0							2

Values
Should Be*

PROPERTIES

SUS Viscosity @ 210°F	43.2	42-51					
cSt Viscosity @ 100°C	5.16	4.8-7.9					
Flashpoint in °F	385	>335					
Fuel %	-						
Antifreeze %	0.0	0.0					
Water %	0.0	0.0					
Insolubles %	0.3	<0.1					
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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