OIL REPORT

LAB NUMBER: F85627 **UNIT ID:** YARIS
REPORT DATE: 11/22/2013 **CLIENT ID:** 68718
CODE: 63/501 **PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Toyota 1.5L 4-cyl (1NZ-FE)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: 2007
OIL TYPE & GRADE: Amsoil 5W/20
OIL USE INTERVAL: 7,152 Miles

CLIENT

CHRIS MCGUINNESS
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COMMENTS

CHRIS: This first sample from your Yaris's 1.5L engine looks great. Metals are all within the average range, showing nothing here that looks like trouble in the works. Averages for this engine are based on about 6,300 miles use on the oil, so it's nice to see that you're getting better wear after a slightly longer run. The TBN read strong at 4.9 showing lots of active additive left in the oil. A reading of 1.0 or less is considered too low. No contamination was found. Low insolubles show good oil filtration. There's no reason to not run your next oil longer. Try 9,000 miles next.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	7,152							
MI/HR on Unit	122,706							
Sample Date	11/10/13							
Make Up Oil Added	0 qts							
ALUMINUM	2	2						3
CHROMIUM	0	0						0
IRON	3	3						9
COPPER	1	1						2
LEAD	0	0						0
TIN	2	2						0
MOLYBDENUM	138	138						74
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						1
POTASSIUM	1	1						3
BORON	75	75						39
SILICON	16	16						14
SODIUM	7	7						34
CALCIUM	3316	3316						2299
MAGNESIUM	13	13						158
PHOSPHORUS	603	603						822
ZINC	650	650						863
BARIUM	0	0						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	55.7	46-59					
cSt Viscosity @ 100°C	8.98	6.0-10.2					
Flashpoint in °F	400	>355					
Fuel %	<0.5	<2.0					
Antifreeze %	0.0	0.0					
Water %	0.0	<0.1					
Insolubles %	0.2	<0.6					
TBN	4.9	>1.0					
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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