

COMMENTS

PAUL: These Nissan 3.5L engines normally look really good in analysis and yours is no exception. Universal averages show typical wear levels for this type of engine after about 4,500 miles on the oil. As you can see, the 3,587 miles that you ran turned up wear that is considerably lower than averages. That a good sign the engine is free of mechanical gremlins. Sodium can be a marker for coolant, but we think it's probably harmless oil additive in this case and nothing to worry about. The TBN was 2.4; less than 1.0 is too low. Try 5,500 miles on the oil this time around. Nice.

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	3,587	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Unit	75,320							
Sample Date	06/14/10							
Make Up Oil Added	0 qts							
ALUMINUM	2	2						3
CHROMIUM	1	1						1
IRON	6	6						12
COPPER	4	4						6
LEAD	1	1						4
TIN	1	1						1
MOLYBDENUM	79	79						59
NICKEL	0	0						0
MANGANESE	0	0						5
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	3	3						2
BORON	41	41						50
SILICON	5	5						14
SODIUM	169	169						42
CALCIUM	1310	1310						2346
MAGNESIUM	39	39						145
PHOSPHORUS	605	605						757
ZINC	764	764						942
BARIUM	0	0						0

Values
Should Be*

PROPERTIES

SUS Viscosity @ 210°F	54.4	56-67					
cSt Viscosity @ 100°C	8.59	9.1-12.4					
Flashpoint in °F	395	>365					
Fuel %	<0.5	<2.0					
Antifreeze %	?	0.0					
Water %	0.0	<0.1					
Insolubles %	0.3	<0.6					
TBN	2.4						
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE