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The Data Speak for Itself...

Product Tested



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Toyota Motor Sales, U.S.A., Inc.

Company and Product Information

Corporate Office:  
Toyota Motor Sales, U.S.A., Inc.  
Torrance, CA 90509

Website(s): [www.toyota.com](http://www.toyota.com)

Genuine Toyota Synthetic SAE 0W-20

Product: Genuine Toyota Synthetic  
Viscosity Grade: SAE 0W-20  
Labeled: API SN

Distributed By: Toyota Motor Sales, USA, Inc., Torrance, CA  
Purchased at: Lexington, KY  
Date of purchase: 1/24/2018

Website(s): [www.toyota.com](http://www.toyota.com)

Test Results and Assessment:

The results of the tests conducted on this sample meet the SAE J300 specifications for the SAE Viscosity Grade listed on the product label, and are consistent with the listed API Service Categories.



Physical Properties



Elemental Analysis

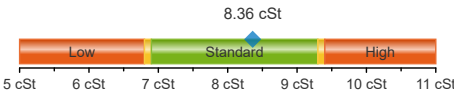


Labeling



Viscosity @ 100°C, cSt (ASTM D445)

The results of the Kinematic Viscosity @ 100°C test conducted on this sample meet the requirements of SAE J300.



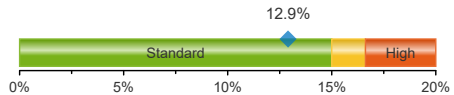
Cold Cranking Viscosity, mPa s (cP) (ASTM D5293)

The results of the Cold Cranking Viscosity test conducted on this sample meet the requirements of SAE J300.



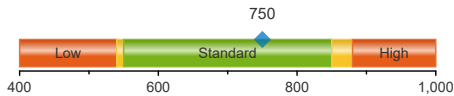
Volatility, mass % loss, 1 hr, @ 250°C (ASTM D5800)

The results of the Volatility, mass % loss, 1 hr, @ 250°C test conducted on this sample meet the requirements of API SN/ILSAC GF-5.



Phosphorus, ppm (ASTM D5185)

The results of the Phosphorus test conducted on this sample meet the requirements of API SN/ILSAC GF-5.



Note<sup>1</sup>: Although laboratory tests alone cannot be used to establish if engine oil meets an API Service Category, they can be used to determine if it doesn't. Note<sup>2</sup>: The specification for cold cranking viscosity includes only a maximum value; the minimum value shown in the "standard" area of the chart is truncated for illustrative purposes.

| PHYSICAL TESTS (click for test details) - a                         | Standard      | Toyota |
|---------------------------------------------------------------------|---------------|--------|
| <a href="#">TBN, mg KOH/g (ASTM D2896)</a>                          |               | 10.28  |
| <a href="#">Viscosity @ 100°C, cSt (ASTM D445)</a>                  | 6.9 to <9.3   | 8.36   |
| <a href="#">Viscosity @ 40°C, cSt (ASTM D445)</a>                   |               | 35.18  |
| <a href="#">Viscosity Index (ASTM D2270)</a>                        |               | 227    |
| <a href="#">Viscosity @ -35°C mPa s (cP) (ASTM D5293)</a>           | 6,200 Max     | 4,102  |
| <a href="#">Volatility, mass % loss, 1 hr, @ 250°C (ASTM D5800)</a> | 15 Max -c     | 12.9   |
| ELEMENTAL ANALYSIS (click for test details) - a, b                  |               |        |
| Additives                                                           |               |        |
| <a href="#">Calcium, ppm</a>                                        |               | 1,470  |
| <a href="#">Magnesium, ppm</a>                                      |               | 674    |
| <a href="#">Phosphorus, ppm</a>                                     | 600 to 800 -d | 750    |
| <a href="#">Zinc, ppm</a>                                           |               | 876    |
| <a href="#">Molybdenum, ppm</a>                                     |               | 787    |
| <a href="#">Barium, ppm</a>                                         |               | <1     |