



# TECHNICAL DATA SHEET

## HPS®

### HIGH PERFORMANCE STREET MOTOR OIL

#### Product Description

Royal Purple® HPS® is specifically formulated to meet the demands and operating conditions of vintage, late-model, and modified high-performance engines. Whether addressing increased valvetrain loads from aggressive camshaft profiles or elevated power levels from forced induction and other performance enhancements, HPS® provides reliable protection for severe street and light competition applications.

Formulated with premium base oils, advanced Synerlec® technology, and optimized levels of ZDDP (zinc dialkyldithiophosphate), HPS® engine oils deliver exceptional wear protection and enhanced engine performance. Recommended for gasoline and light duty diesel engines—including turbocharged, supercharged, and naturally aspirated applications—HPS® also incorporates robust detergents and dispersants to control the formation of deposits, sludge, and varnish, helping maintain engine cleanliness and support efficient combustion. Not suitable for use in motorcycle or wet clutch applications.

Choose Royal Purple® HPS® for superior wear protection, performance, and cleanliness in both modified and stock street-driven vehicles.

#### PERFORMANCE ADVANTAGES

- OUTSTANDING WEAR PROTECTION – Industry leading anti-wear performance that provides protection and reduces metal to metal contact in your modified engine
- MAXIMIZED ENGINE PERFORMANCE – Greater lubricity and low coefficient of friction ensure maximum engine performance
- EXCEPTIONAL OXIDATION STABILITY – Slows the breakdown of oil to provide long lasting protection
- SUPERIOR ENGINE CLEANLINESS - Advanced synthetic solvency reduces engine deposits and keeps engines clean
- INCREASED ENGINE PROTECTION - Reduces Low Speed Pre-Ignition (LSPI) in turbocharged Gasoline Direct Injection (GDI) engines

#### PRODUCT DATA

| Typical Properties            |             |             |             |             |             |             |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Property                      | Test Method | HPS 5W-20   | HPS 5W-30   | HPS 10W-30  | HPS 10W-40  | HPS 20W-50  |
| KV40, cSt                     | ASTM D445   | 46.73       | 59.4        | 61.29       | 95          | 151.1       |
| KV100, cSt                    | ASTM D445   | 8.22        | 10.14       | 10.04       | 14.73       | 18.97       |
| Viscosity Index               | ASTM D2270  | 151         | 159         | 150         | 162         | 143         |
| Cold Crank Simulator (CCS) cP | ASTM D5293  | 4949 (-30C) | 5233 (-30C) | 3963 (-25C) | 5919 (-25C) | 5205 (-15C) |
| TBN, mg KOH / g               | ASTM D2896  | 7.48        | 7.03        | 7.24        | 7.34        | 7.39        |
| Density                       | ASTM D4052  | 0.8502      | 0.8506      | 0.8521      | 0.8533      | 0.8633      |
| Pour Point, C                 | ASTM D97    | -42         | -36         | -36         | -36         | -33         |
| Flash Point, F                | ASTM D92    | 440         | 450         | 460         | 450         | 440         |

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