



# RAVENOL HCS SAE 5W-40



1L | 1112105-001  
4L | 1112105-004  
5L | 1112105-005  
10L | 1112105-010  
20L | 1112105-020  
20L | 1112105-B20  
60L | 1112105-060  
60L | 1112105-D60  
208L | 1112105-208  
208L | 1112105-D28  
1000L | 1112105-700

**Kategorie:** Passenger car motor oil

**Artikelnummer:** 1112105

**Viscosity:** 5W-40

**Specifications:** ACEA A3/B4, API CF, API SN

**Oil type:** Synthetic

**Approvals:** API SN, MB -Freigabe 229.3, Renault RN0700, Renault RN0710, VW 502 00, VW 505 00

**Recommendations:** BMW Longlife-01, Chrysler MS-10850, Chrysler MS-10896, Fiat 9.55535-H2, MB 226.5, Opel/GM -LL-B-025, Porsche A40, PSA B71 2296

**Application:** Passenger car

**Technology:** CleanSynto

**RAVENOL HCS SAE 5W-40** is synthetic high performance motor oil with CleanSynto® technology for passenger car petrol and diesel engines with and without turbo-charging and direct injection. Formulated to minimise friction, wear and fuel consumption with excellent cold start characteristics. Suitable for extended oil change intervals where recommended by manufacturer.

## Application instructions

**RAVENOL HCS SAE 5W-40** is suitable for an energy saving all year use for all modern passenger car gasoline and diesel engines, including turbo versions and for direct injection motors and also recommended for all operation conditions.

## Characteristics

- High protection against wear
- Fuel economy by low friction property
- Excellent detergent- and dispersant property
- Prevention of black sludge formation
- Improved cleaner engine
- Extended lifetime because of oxidation stability
- Excellent cold starting characteristics
- Excellent viscosity-temperature- characteristics
- Low evaporation tendency
- Catalyst cleaning

## Technical Product Data

| CHARACTERISTICS                             | PROPERTY           | DATA      | AUDIT           |
|---------------------------------------------|--------------------|-----------|-----------------|
| Colour                                      |                    | gelbbraun | VISUELL         |
| Sulphated Ash                               | %wt.               | 1,26      | DIN 51575       |
| tbn                                         | mg KOH/g           | 10,4      | ASTM D2896      |
| Viscosity at 100 °C                         | mm <sup>2</sup> /s | 14,4      | DIN 51562-1     |
| Viscosity at 40 °C                          | mm <sup>2</sup> /s | 87,5      | DIN 51562-1     |
| Viscosity Index VI                          |                    | 171       | DIN ISO 2909    |
| CCS Viscosity at -30 °C                     | mPa*s              | 5370      | ASTM D5293      |
| Density at 20 °C                            | kg/m <sup>3</sup>  | 849,0     | EN ISO 12185    |
| Flashpoint                                  | °C                 | 232       | DIN EN ISO 2592 |
| HTHS Viscosity at 150 °C                    | mPa*s              | 3,9       | ASTM D5481      |
| Low Temp. Pumping viscosity (MRV) at -35 °C | mPa*s              | 28.500    | ASTM D4684      |
| Noack Volatility                            | % M/M              | 8,4       | ASTM D5800      |
| Pourpoint                                   | °C                 | -42       | DIN ISO 3016    |