

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

## RAVENOL HCS SAE 5W-40

Kategorie: Passenger car motor oil
ArtikeInummer: 1112105
Viscosity: 5W-40
Specification: ACEA A3/B4, API CF, API SN
Oil type: Synthetic
Approvals: API SN, MB-Freigabe 229.3, Renault RN0700/RN0710, VW 502 00, VW 50500

Recommendation: BMW Longlife-01, Chrysler MS-10850, Chrysler MS10896, Fiat 9.55535-H2, MB 226.5, Opel/GM-LL-B-025, Porsche A40, PSA B71 2296

Application: Passenger car
Technology: Clean Synto ®
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 Note

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

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

All indicated data are approximate values and are subject to the commercial fluctuations.

