



# Renault RN700 certificate



|                |              |                                       |
|----------------|--------------|---------------------------------------|
| Identification | Supplier     | OOO "LUK-International"               |
|                | Product name | LUKOIL LUXE Synthetic<br>confidential |
|                | ACEA         | A3 / B4 08                            |
|                | Grade        | 5W-40                                 |

|                 |                        |                             |       |
|-----------------|------------------------|-----------------------------|-------|
| Lab performance | 1.2                    | Shear stability             | 13,30 |
|                 | 1.3                    | HTHS                        | 3,70  |
|                 | 1.4                    | Kinematic viscosity (40°C)  | 82,8  |
|                 |                        | Kinematic viscosity (100°C) | 13,80 |
|                 | 1.5                    | Noack                       | 10,2  |
|                 | 1.6                    | Calcium                     | 2700  |
|                 |                        | Zinc                        | 1050  |
|                 |                        | Magnesium                   | 0     |
|                 |                        | Sulphur                     | 0,20  |
|                 |                        | Phosphorus                  | 950   |
|                 |                        | Chlorine                    | 10    |
|                 |                        | Molybdenum                  | 0     |
|                 |                        | Barium                      | 0     |
|                 | 1.7                    | Silicon                     | 5     |
| Boron           |                        | 70                          |       |
| 1.7             | Sulphated Ash          | 1,1                         |       |
| 1.8             | TAN                    | 2,6                         |       |
| 1.9             | TBN                    | 10,1                        |       |
| 1.10            | RE1 - FPM              | PASS (AK6)                  |       |
|                 | RE2/99 - ACM           | PASS (ACM)                  |       |
|                 | RE3/04 - VMQ           | PASS                        |       |
|                 | RE4 - NBR              | PASS (NBR34)                |       |
|                 | AEM - VAMAC            | PASS (AEM)                  |       |
| 1.11            | Foaming Seq1           | 0 - 0                       |       |
|                 | Foaming Seq2           | 10 - 0                      |       |
|                 | Foaming Seq3           | 0 - 0                       |       |
| 1.12            | Foaming Seq4           | 30 - 0                      |       |
| 1.13            | CCS                    | 5780                        |       |
| 1.14            | Pumping limit T* (MRV) | 28300 @ -35                 |       |

|                             |      |                         |              |
|-----------------------------|------|-------------------------|--------------|
| Lab performance (continued) | 1.16 | Density                 | 852          |
|                             | 1.16 | Open-vessel flash point | 228          |
|                             | 1.17 | Pour point              | -39          |
|                             | 1.18 | Copper corrosion        | 1a           |
|                             | 1.19 | Anti-wear properties    | 0,47         |
|                             | 1.20 | De-airing               | 25           |
|                             | 1.21 | Water content           | <0,04        |
|                             | 1.22 | Base oil type & ratio   | confidential |
|                             | 1.23 | TOC                     | Classe 2     |
|                             | 1.24 | MCT                     | 9,3          |
|                             | 1.25 | Auto-ignition T*        | 358          |

|                               |     |   |      |
|-------------------------------|-----|---|------|
| ACEA Engine tests performance | 2.1 | TUSJP high temperature deposits             | Pass |
|                               | 2.2 | Seq VQ low temperature sludge               | Pass |
|                               | 2.3 | TU3M cam wear                               | Pass |
|                               | 2.4 | M111 black sludge                           | Pass |
|                               | 2.5 | M111 fuel economy                           | NR   |
|                               | 2.6 | (I)V4TD dispersivity                        | Pass |
|                               | 2.7 | OM646 Viscosity stability & oil consumption | Pass |
|                               | 2.8 | VW DI piston cleanliness & ring sticking    | Pass |

|     |     |             |   |
|-----|-----|-------------|---|
| LLR | 3.1 | Renault LLR | - |
|-----|-----|-------------|---|

|   |                                   |                |
|---|-----------------------------------|----------------|
| Renault Registration Data (to be filled by Renault's delegate only) |                                   |                |
| Registration  | Final Technical data (dd/mm/yyyy) | 31.05.2010     |
|   | Sample delivery (dd/mm/yyyy)      | 31.05.2010     |
| Certificate   | Certificate serial number         | RN0700-10-48   |
|   | Delivered on (dd/mm/yyyy)         | 29.06.2010     |
|   | Valid till (dd/mm/yyyy)           | 29.06.2015     |
|   | Letter ref (NDS)                  | 68150-10-10000 |

Renault: Date, Name, Signature

29/06/2010

**Jean-Michel TRICHARD**  
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 TCR LAB 2 52  
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Supplier commitment: Date, Name, Signature

I hereby certify that all data submitted in this form were tested and issued from Renault-approved independent or Renault certified (self-agreement process) testing facilities.

16.06.2010

Deputy General Director for Production, Research & Development  
 Mr. Alexey Filippov