RENAULT

CHANGEONS DE VIE
CHANGEONS L'AUTOMOBILE

**RENAULT TECHNOLOGIE ROUMANIE**
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marian.sirbu@renault.com

**RENAULT TECHNOLOGIE ROUMANIE**
**Mioveni**

API : RO MIO 100 P 20

Sofia - Aurora MONDIRU

Réf. KCM7300-2018-17410

Le 27/08/2018

**Attention: Antonida Tarantina**
**Company: Gazpromneft-Lubricants, Ltd**
**Address : 4/3, Krzhizhanovskogo str.**
**Moscow, 117218**
**Russian Federation**

**Objet :** RN Certification – Gazpromneft-Lubricants Ltd – Renault approval.

Dear Mrs.Tarantina,

I am pleased to send you the Renault certificates. Here you can find some details about your RN after sale engine oil :

- **G-Energy Long Life 10W-40** (A3/B4-16 SAE 10W-40) **RN0700-18-64 & RN0710-18-62** [redacted]

The certification is effective for 4 years (until **27/08/2022**).

Thank you for your cooperation.

Kind Regards,

**Marian SIRBU**
«Materials Engineering Manager»

*Enc : 2 Certificates.*

ENGINE OIL GAZPROMNEFT

RENAULT

# Renault RN700 certificate

| | | | |
|---|---|---|---|
| Identification | | Supplier | GAZPROMNEFT- Lubricants, Ltd. |
| | | Formula name | **G-Energy Long Life 10W-40** |
| | | | [redacted] |
| | | ACEA | A3/B4-16 |
| | 1.01 | Grade | 10W-40 |

| | | | |
|---|---|---|---|
| Lab performance | 1.02 | Shear stability | 12.57 |
| | 1.03 | HTHS (150°C) | 4.0 |
| | 1.04 | HTHS (100°C) | 9.39 |
| | 1.05 | Kinematic viscosity 40°C | 91.2 |
| | | Kinematic viscosity 100°C | 13.78 |
| | 1.06 | Noack | 4.9 |
| | 1.07 | Calcium | 3499 |
| | | Zinc | 1207 |
| | | Magnesium | 10 |
| | | Sulphur | 0.317 |
| | | Phosphorus | 1110 |
| | | Chlorine | <10 |
| | | Molybdenum | 115 |
| | | Barium | <5 |
| | | Silicon | 10 |
| | | Boron | 54 |
| | 1.08 | Sulphated Ash | 1.38 |
| | 1.09 | TAN | 2.7 |
| | 1.10 | TBN | 10.8 |
| | 1.11 | RE6 - FKM | PASS |
| | | RE7 - ACM | PASS |
| | | RE8 - HNBR | PASS |
| | | RE9 - AEM | PASS |
| | 1.12 | Foaming Seq1 | 0/0 |
| | | Foaming Seq2 | 10/0 |
| | | Foaming Seq3 | 0/0 |
| | 1.13 | Foaming Seq4 | 30/0 |
| | 1.14 | Low temperature Cranking viscosity(CCS) | 5490@-25°C |
| | 1.15 | Low temperature Pumping viscosity (MRV) | 24800@-30°C |

| | | | |
|---|---|---|---|
| Lab performance (continued) | 1.16 | Density | 858.4 |
| | 1.17 | Open-vessel flash point | 246 |
| | 1.18 | Pour point | -36 |
| | 1.19 | Copper corrosion | 1a |
| | 1.20 | Anti-wear properties | 0.36 |
| | 1.21 | De-airing | 27 |
| | 1.22 | Water content, % | <0.04 |
| | 1.23 | Water conten, ppm | 185 |
| | 1.24 | Base oil type & ratio | Gr.3 100% |
| | 1.25 | TOC | Classe 2 |
| | 1.26 | MCT | 7.0 / 245 |
| | 1.27 | Oil oxidation with Biodiesel | PASS |
| | 1.28 | Low temperature Pumping viscosity | 56800@-30°C |
| ACEA Engine tests performance | 2.01 | EP6CDT cleanliness test | PASS |
| | 2.02 | Seq VG low temperature sludge | PASS |
| | 2.03 | TU3M cam wear | PASS |
| | 2.04 | M271 black sludge | PASS |
| | 2.05 | M111 fuel economy | 1.0 |
| | 2.06 | DV6C dispersivity | PASS |
| | 2.07 | OM646LA Viscosity stability & oil consumption | PASS |
| | 2.08 | VW TDI piston cleanliness & ring sticking | PASS |
| | 2.09 | OM646LA Biodiesel Effects | PASS |

| | | | |
|---|---|---|---|
| LLR | 2.10 | Renault LLR | NR |

**Renault Registration Data (to be filled by Renault's delegate only)**

| | | |
|---|---|---|
| Registration | Final Technical data (dd/mm/yyyy) | 20.06.2018 |
| | Sample delivery (dd/mm/yyyy) | 26.06.2018 |
| Certificate | Certificate serial number | **RN700-18-64** |
| | Delivered on (dd/mm/yyyy) | 27.08.2018 |
| | Valid till (dd/mm/yyyy) | 27.08.2022 |
| | Letter reference | KCM7300-2018-17410 |

**Renault: Date, Name, Signature**

27.08.2018
Lucas Marins

**Supplier commitment: Date, Name, Signature**

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

July 26th, 2018

Peter Agafonov

ENGINE OIL GAZPROMNEFT

RENAULT

# Renault RN710 certificate

| | | | |
|---|---|---|---|
| Identification | | Supplier | GAZPROMNEFT- Lubricants, Ltd. |
| | | Formula name | **G-Energy Long Life 10W-40** |
| | | | [redacted] |
| | | ACEA | A3/B4-16 |
| | 1.01 | Grade | 10W-40 |

| | | | |
|---|---|---|---|
| Lab performance | 1.02 | Shear stability | 12.57 |
| | 1.03 | HTHS (150°C) | 4.0 |
| | 1.04 | HTHS (100°C) | 9.39 |
| | 1.05 | Kinematic viscosity 40°C | 91.2 |
| | | Kinematic viscosity 100°C | 13.78 |
| | 1.06 | Noack | 4.9 |
| | 1.07 | Calcium | 3499 |
| | | Zinc | 1207 |
| | | Magnesium | 10 |
| | | Sulphur | 0.317 |
| | | Phosphorus | 1110 |
| | | Chlorine | <10 |
| | | Molybdenum | 115 |
| | | Barium | <5 |
| | | Silicon | 10 |
| | | Boron | 54 |
| | 1.08 | Sulphated Ash | 1.38 |
| | 1.09 | TAN | 2.7 |
| | 1.10 | TBN | 10.8 |
| | 1.11 | RE6 - FKM | PASS |
| | | RE7 - ACM | PASS |
| | | RE8 - HNBR | PASS |
| | | RE9 - AEM | PASS |
| | 1.12 | Foaming Seq1 | 0/0 |
| | | Foaming Seq2 | 10/0 |
| | | Foaming Seq3 | 0/0 |
| | 1.13 | Foaming Seq4 | 30/0 |
| | 1.14 | Low temperature Cranking viscosity(CCS) | 5490@-25°C |
| | 1.15 | Low temperature Pumping viscosity (MRV) | 24800@-30°C |

| | | | |
|---|---|---|---|
| Lab performance (continued) | 1.16 | Density | 858.4 |
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| | 1.27 | Oil oxidation with Biodiesel | PASS |
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| | 2.04 | M271 black sludge | PASS |
| | 2.05 | M111 fuel economy | 1.0 |
| | 2.06 | DV6C dispersivity | PASS |
| | 2.07 | OM646LA Viscosity stability & oil consumption | PASS |
| | 2.08 | VW TDI piston cleanliness & ring sticking | PASS |
| | 2.09 | OM646LA Biodiesel Effects | PASS |

| | | | |
|---|---|---|---|
| LLR | 2.10 | Renault LLR | NR |

**Renault Registration Data (to be filled by Renault's delegate only)**

| | | |
|---|---|---|
| Registration | Final Technical data (dd/mm/yyyy) | 20.06.2018 |
| | Sample delivery (dd/mm/yyyy) | 26.06.2018 |
| Certificate | Certificate serial number | **RN710-18-62** |
| | Delivered on (dd/mm/yyyy) | 27.08.2018 |
| | Valid till (dd/mm/yyyy) | 27.08.2022 |
| | Letter reference | KCM7300-2018-17410 |

**Renault: Date, Name, Signature**

27.08.2018
Ruben Morales

**Supplier commitment: Date, Name, Signature**

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

July 26th, 2018

Peter Agafonov