



## Renault RN710 certificate

<b>Identification</b>	Supplier	GAZPROMNEFT-LUBRICANTS, Ltd.
	Product name	<b>G-ENERGY SERVICE LINE R 5W-40</b>
		[REDACTED]
	ACEA	A3/B4-12
	1.1 Grade	5W-40

<b>Lab performance</b>	1.2	Shear stability	13.10
	1.3	HTHS	4.00
	1.4	Kinematic viscosity (40°C)	91.5
		Kinematic viscosity (100°C)	14.79
	1.5	Noack	9.8
	1.6	Calcium	3290
		Zinc	1210
		Magnesium	13
		Sulphur	0.35
		Phosphorus	1060
		Chlorine	13
		Molybdenum	1
		Barium	<10
		Silicon	13
		Boron	96
	1.7	Sulphated Ash	1.3
	1.8	TAN	4.1
	1.9	TBN	10
	1.10	RE1 - FPM	PASS
		RE2/99 - ACM	PASS
RE3/04 - VMQ		PASS	
RE4 - NBR		PASS	
AEM - VAMAC		PASS	
1.11	Foaming Seq1	0/0	
	Foaming Seq2	20/0	
	Foaming Seq3	0/0	
	Foaming Seq4	20/0	
1.12	Foaming Seq4	20/0	
1.13	CCS	6480@-30	
1.14	Pumping limit T* (MRV)	22969@-35	

<b>Lab performance (continued)</b>	1.15	Density	854
	1.16	Open-vessel flash point	240
	1.17	Pour point	-39
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.38
	1.20	De-airing	27.7
	1.21	Water content	<0.04
	1.22	Base oil type & ratio	Gr.3 100%
	1.23	TOC	Classe 2
	1.24	MCT	7.9 / 254
	1.25	Auto-ignition T*	350

<b>ACEA Engine tests performance</b>	2.1	TU5JP high temperature deposits	PASS
	2.2	Seq VG low temperature sludge	PASS
	2.3	TU3M cam wear	PASS
	2.4	M111 black sludge	PASS
	2.5	M111 fuel economy	N/R
	2.6	DV4TD dispersivity	PASS
	2.7	OM646 Viscosity stability et oil consumption	PASS
	2.8	VW DI piston cleanliness & ring sticking	PASS

<b>LLR</b>	3.1	Renault LLR	N/R
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<b>Renault Registration Data (to be filled by Renault's delegate only)</b>		
<b>Registration</b>	Final Technical data (dd/mm/yyyy)	03.08.2020
	Sample delivery (dd/mm/yyyy)	21.08.2020
<b>Certificate</b>	Certificate serial number	<b>RN710-20-73</b>
	Delivered on (dd/mm/yyyy)	26.08.2020
	Valid till (dd/mm/yyyy)	26.08.2024
	Letter reference	QBT7300-2020-20083

**Renault: Date, Name, Signature**

26.08.2020  
Gabriel Alexandru SERBAN



**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.

26/08/2020  
Peter Agafonov  
R&D Manager

