



CHANGEONS DE VIE
CHANGEONS L'AUTOMOBILE

RENAULT TECHNOLOGIE ROUMANIE
RO CTT A00 1 07, Titu, jud. Dambovita
Str. Aviatorilor, Nr.1, Cod 135500

Téléphone : +4 0248 342 250
marian.sirbu@renault.com

RENAULT TECHNOLOGIE ROUMANIE
Mioveni

API : RO MIO 100 P 20
Sofia - Aurora MONDIRU
Réf. KCM7300-2017-15142
Le 04/04/2017

**Attention : Paul van de Heijning
Company : Kuwait Petroleum &
Technology BV
Address: Moezelweg N°251
3198 LS Europoort RT
P.O.Box 1310 -
3180 AH Rozenburg
Harbour 5640-Gate 2
Netherlands**

Objet : RN Certification – Kuwait Petroleum – Renault approval.

Dear Mr. van de Heijning,

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

- **Q8 Formula R Long Life 5W-30 (C4-12)** **RN0720-17-09**

- **Q8 Formula Excel 5W-40 (A3/B4-12)** **RN0700-17-14 & RN0710-17-14**

The certification is effective for 4 years (until **04/04/2021**).

Thank you for your cooperation.

Kind Regards,

Marian SIRBU
Chef de Service
« Ingénierie des matériaux »

Enc : 3 Certificates.

RENAULT Property



Renault RN700 certificate

Identification	Supplier	Kuwait Petroleum
	Product name	Q8 Formula Excel 5W-40
	ACEA	A3/B4-12
	1.1 Grade	5W-40

Lab performance	1.2	Shear stability	12.9
	1.3	HTHS	3.9
	1.4	Kinematic viscosity (40°C)	87.4
		Kinematic viscosity (100°C)	14.09
	1.5	Noack	11.6
	1.6	Calcium	3350
		Zinc	1270
		Magnesium	5
		Sulphur	0.39
		Phosphorus	1130
		Chlorine	43
		Molybdenum	1
		Berium	<10
		Silicon	13
	Boron	110	
	1.7	Sulphated Ash	1.3
	1.8	TAN	2.4
	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	10/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	10/0	
1.13	CCS	6250@-30	
1.14	Pumping limit T* (MRV)	29419@-35	

Lab performance (continued)	1.15	Density	856
	1.16	Open-vessel flash point	232
	1.17	Pour point	-36
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.45
	1.20	De-airing	23
	1.21	Water content	0.02
	1.22	Base oil type & ratio	100% Gp III
	1.23	TOC	Classe 2
	1.24	MCT	7.0
	1.25	Auto-ignition T*	357

ACEA Engine tests performance	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	-
	2.6	DV4TD dispersivity	Pass
	2.7	OM646 Viscosity stability et oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	Renault LLR	NR
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	08-03-2017
	Sample delivery (dd/mm/yyyy)	08-03-2017
Certificate	Certificate serial number	RN0700-17-14
	Delivered on (dd/mm/yyyy)	<i>04.04.2017</i>
	Valid till (dd/mm/yyyy)	<i>04.04.2021</i>
	Letter ref (NDS)	KCM7300-2017-15142

Renault: Date, Name, Signature

04.04.2017

RUSU MARCUS

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.

Kuwait Petroleum Research & Technology BV
 Moezelweg 251 - 3198 LS Europoort RT
 P.O. box 1310 - 3180 AH Rozenburg
 Harbour 5640 - Gate 2
 Tel. +31(0)181 285 222
 Fax. +31(0)181 263 494

P. VAN DE HEIJNING, 29-03-2017



Renault RN710 certificate

Identification	Supplier	Kuwait Petroleum
	Product name	Q8 Formula Excel 5W-40
	ACEA	A3/B4-12
	1.1 Grade	5W-40

Lab performance	1.2	Shear stability	12.9
	1.3	HTHS	3.9
	1.4	Kinematic viscosity (40°C)	87.4
		Kinematic viscosity (100°C)	14.09
	1.5	Noack	11.6
	1.6	Calcium	3350
		Zinc	1270
		Magnesium	5
		Sulphur	0.39
		Phosphorus	1130
		Chlorine	43
		Molybdenum	1
		Barium	<10
		Silicon	13
	Boron	110	
	1.7	Sulphated Ash	1.3
	1.8	TAN	2.4
	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	10/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	10/0	
1.13	CCS	6250@-30	
1.14	Pumping limit T* (MRV)	2941@-35	

Lab performance (continued)	1.15	Density	856
	1.16	Open-vessel flash point	232
	1.17	Pour point	-36
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.45
	1.20	De-airing	23
	1.21	Water content	0.02
	1.22	Base oil type & ratio	100% Gp III
	1.23	TOC	Classe 2
	1.24	MCT	7.0
	1.25	Auto-ignition T*	357

ACEA Engine tests performance	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	-
	2.6	DV4TD dispersivity	Pass
	2.7	OM646 Viscosity stability et oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	Renault LLR	NR
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	08-03-2017
	Sample delivery (dd/mm/yyyy)	08-03-2017
Certificate	Certificate serial number	RN0710-17-14
	Delivered on (dd/mm/yyyy)	04.04.2017
	Valid till (dd/mm/yyyy)	04.04.2021
	Letter ref (NDS)	KCM7300-2017-15142

Renault: Date, Name, Signature

04.04.2017
RUSU MARIS

Supplier commitment: Date, Name, Signature

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P. VAN DE HEIJNING, 29-03-2017