



CHANGEONS DE VIE
CHANGEONS L'AUTOMOBILE

RENAULT TECHNOLOGIE ROUMANIE
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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 RN720 certificate



Identification		Supplier	Kuwait Petroleum
		Product name	Q8 Formula R Long Life 5W-30
		ACEA	C4-12
	1.1	Grade	5W-30

Lab performance	1.2	Shear stability	11.6
	1.3	HTHS	3.51
	1.4	Kinematic viscosity (40°C)	68.1
		Kinematic viscosity (100°C)	11.6
	1.5	Noack	9.4
	1.6	Calcium	1216
		Zinc	500
		Magnesium	4
		Sulphur	0.19
		Phosphorus	447
		Chlorine	-
		Molybdenum	1
		Barium	<10
		Silicon	7
	1.7	Boron	<10
	1.7	Sulphated Ash	0.4
	1.8	TAN	1.1
	1.9	TBN	7.0
	1.10	RE1 - FPM	Pass (C3-04)
		RE2/99 - ACM	Pass (C3-04)
RE3/04 - VMQ		Pass (C3-04)	
RE4 - NBR		Pass (C3-04)	
	AEM - VAMAC	Pass	
1.11	Foaming Seq1	0/0	
	Foaming Seq2	40/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	90/0	
1.13	CCS	6150 @ -30	
1.14	Pumping limit T* (MRV)	27600 @ -35	

Lab performance (continued)	1.15	Density	852
	1.16	Open-vessel flash point	210
	1.17	Pour point	-33
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.43
	1.20	De-airing	29.5
	1.21	Water content	<0.04
	1.22	Base oil type & ratio	100% Gr III
	1.23	TOC	Classe 3
	1.24	MCT	8.5 / 261
	1.25	Auto-ignition T*	362

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	Pass
	2.6	DV4TD dispersivity	Pass
	2.7	OM649 Viscosity stability et oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	Renault LLR	Pass
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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	RN0720-17-09
	Delivered on (dd/mm/yyyy)	09.09.2017
	Valid till (dd/mm/yyyy)	09.09.2021
	Letter ref (NDS)	KCM7300-2017-15142

Renault: Date, Name, Signature

09.09.2017

Rusu Marius

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
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P. VAN DE HEIJNING, 29.03.2017