



CHANGEONS DE VIE  
CHANGEONS L'AUTOMOBILE

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API : FR TCR LAB 1 52  
Grégory ALEXANDRE

Réf. 68150-2013-179

Le 15/05/2013

Attention: [Renata Zubaite](#)  
Company: **UAB "SCT Lubricants"**

Address: Silutes pl. 119 – LT 95112  
**LITHUANIA**

**Objet :** RN0700 Certification – SCT Lubricants.

Dear Mr. Zubaite,

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

**Brand names :** "Mannol Classic 10w-40"

- (IME0903810-A - 10w40 - A3/B4-10) : **RN0700-13-16**

The certification is effective for 4 years (until 14/05/2017).

Thank you for your cooperation.

Kind regards,

**Arnaud MORIZOT**  
Chef de Service  
« Matériaux polymères et fluides »

*PJ : 1 Certificate.*



## Renault RN700 certificate

Identification		Supplier	SCT Lubricants
		Product name	Mannol Classic 10w-40 (IME0903810-A)
		ACEA	A3/B4-10
	1.1	Grade	10W-40

Lab performance		Kinematic viscosity (40°C)	98.06
		Kinematic viscosity (100°C)	14.34
	1.2	Shear stability	13.48
	1.3	HTHS	3.85
	1.4	Noack	12.8
		Calcium	2788
		Zinc	1936
		Magnesium	-
	1.5	Sulphur	0.77
	1.6	Phosphorus	1760
	1.7	Sulphated Ash	1.3
	1.8	Chionne	70
		TAN	4.2
	1.9	TBN	10
		RE1 - FPM	PASS
		RE2/99 - ACM	PASS
	1.10	RE3/D4 - VMO	PASS
		RE4 - NBR	PASS
		AEM - VAMAC	PASS
		Foaming Seq1	0 / 0
1.11	Foaming Seq2	20 / 0	
	Foaming Seq3	0 / 0	
1.12	Foaming Seq4	80 / 0	
1.13	CCS	6430 @ -25	
1.14	Pumping limit T* (MRV)	28156 @ -30	
1.15	Uensy	876	
1.16	Open-vessel flash point	229	

Lab performance (continued)	1.17	Pour point	-39
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	< 0.5
	1.20	De-airing	26.5
	1.21	Water content	< 0.04
	1.22	Base oil type & ratio	59.5 % Gr I 20 % Gr III
	1.23	TOC	Classe 2
	1.24	MCT	6.6
	1.25	Auto-ignition T*	341

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	NR
	2.6	DV4TD dispersivity	Pass
	2.7	VW DI piston cleanliness & ring sticking	Pass
	2.8	DMSGLA	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)	28.03.2013	
	Sample delivery (dd/mm/yyyy)	20.11.2012	
	Renault lab serial registry (FLU)	-	
Certificate	Certificate serial number	RN0700-13-16	
	Delivered on (dd/mm/yyyy)	14.05.2013	
	Valid till (dd/mm/yyyy)	14.05.2017	
	Letter ref (NDS)	68150-2013-179	

Renault: Date, Name, Signature

14/05/2013

Jean-Michel TRICHARD  
Service 68160  
TCR LAB 2 52  
Tél. : 01.76.85.74.58  
Fax : 01.76.89.08.85

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

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06.05.2013  
P. Gasar

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