



Renault RN710 certificate

Identification	Supplier	LUKOIL
	Product name	<i>CONFIDENTIAL</i>
		LUKOIL Luxe Synthetic 5w-40
	ACEA	A3/B4-12
1.1	Grade	5w-40

Lab performance	1.2	Shear stability	12,60
	1.3	HTHS	3,50
	1.4	Kinematic viscosity (40°C)	72,2
		Kinematic viscosity (100°C)	12,90
	1.5	Noack	10,1
	1.6	Calcium	3050
		Zinc	1052
		Magnesium	19
		Sulphur	0,22
		Phosphorus	936
		Chlorine	17
		Molybdenum	<1
		Barium	<1
		Silicon	6
	1.7	Boron	71
	1.7	Sulphated Ash	1,2
	1.8	TAN	2,5
	1.9	TBN	11
	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	70/0	
1.13	CCS	3555@-30	
1.14	Pumping limit T* (MRV)	15000@-35	

Lab performance (continued)	1.15	Density	845,2
	1.16	Open-vessel flash point	231
	1.17	Pour point	-48
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,45
	1.20	De-airing	20,4
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	<i>CONFIDENTIAL</i>
	1.23	TOC	Classe2
	1.24	MCT	7,7 / 247
	1.25	Auto-ignition T°	358

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)	29.10.2015
	Sample delivery (dd/mm/yyyy)	09.11.2015
Certificate	Certificate serial number	RN0710-16-02
	Delivered on (dd/mm/yyyy)	<i>19/11/2015</i>
	Valid till (dd/mm/yyyy)	<i>19/11/2019</i>
	Letter reference	68150-2015-316

Renault: Date, Name, Signature

19/11/2015

C. DUMONT

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.

13.11.2015

Dr. Andrey Stepanov