

Renault RN710 certificate

Renault	Supplier	SK Lubricants
	Product name	ZIC X9 5W-30
	ACEA	A3/B4-12
	Grade	5w-30

Lab parameters	1.2	Shear stability	11.00
	1.3	HTHS	3.60
	1.4	Kinematic viscosity (40°C)	70.9
		Kinematic viscosity (100°C)	12.10
	1.5	Niack	8.9
		Calcium	2687
	1.6	Zinc	1051
		Magnesium	0
		Sulphur	0.21
		Phosphorus	958
		Chlorine	10
		Molybdenum	0
		Barium	0
		Silicon	0
1.7	Sulphated Ash	1.1	
1.8	TAN	2.4	
1.9	TBN	10	
1.10	RE1 - FPM	PASS	
	RE200 - ACM	PASS	
	RE304 - VAO	PASS	
	RE4 - NBR	PASS	
1.11	AEM - VAMAC	PASS	
	Foaming Seq1	0/0	
	Foaming Seq2	10/0	
1.12	Foaming Seq3	0/0	
	Foaming Seq4	20/0	
1.13	CCS	81908-30	
1.14	Pumping Seq T* (MRV)	289008-35	

Lab parameters	1.15	Density	853
	1.16	Open-vessel flash point	226
	1.17	Pour point	-42
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.4
	1.20	De-aring	21
	1.21	Water content	< 0.04
	1.22	Base oil type & rate	100 % Gr III
	1.23	TOC	Class62
	1.24	MCT	9.6 / 250°C
	1.25	Auto-ignition T*	330

ACEA Renault parameters	2.1	TUSIP high temperature deposits	Pass
	2.2	Sect VD low temperature sludge	Pass
	2.3	TU3M cam wear	Pass
	2.4	M111 black sludge	Pass
	2.5	M111 fuel economy	NA
	2.6	DV4TD dispersivity	Pass
	2.7	Class62 Viscosity stability at oil consumption	Pass
	2.8	VW D1 preon 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)		
Reference	Final Technical data (dd/mm/yyyy)	2015-05-19
	Sample delivery (dd/mm/yyyy)	2015-05-19
Certificate	Certificate serial number	RN0710-15-22
	Delivered on (dd/mm/yyyy)	05/06/2015
	Valid till (dd/mm/yyyy)	05/06/2019
	Letter ref (NDS)	68150-2015-139

Renault: Date, Name, Signature

05/06/2015

Jean-Michel TRICHARD
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Supplier commitment: Date, Name, Signature

I hereby certify that all data submitted in this form is correct and issued from Renault-approved independent or Renault-certified (self-agreement process) testing facilities.

02 June 2015

Y. M. 2015

