

Renault RN710 certificate

Identification	Supplier	SK lubricants Co.,Ltd.
	Product name	ZIC X9 5W-30
	ACEA	A3/B4-12
	Grade	5W-30

Lab performance	1 2	Shear stability	11 90
	1 3	HTHS	3 60
	1 4	Kinematic viscosity (40°C)	70 9
		Kinematic viscosity (100°C)	12 10
	1 5	Noack	9 9
	1 6	Calcium	2687
		Zinc	1051
		Magnesium	0
		Sulphur	0 21
		Phosphorus	958
		Chlorine	10
		Molybdenum	0
		Barium	0
		Silicon	6
	Boron	70	
	1 7	Sulphated Ash	1 1
	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	
	Foaming Seq4	20/0	
1 12	Foaming Seq4	20/0	
1 13	CCS	6190@-30°C	
1 14	Pumping limit T* (MRV)	26900@-35°C	

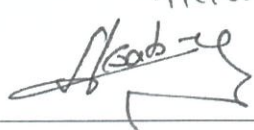
Lab performance (continued)	1 15	Density	853
	1 16	Open-vessel flash point	226
	1 17	Pour point	-42
	1 18	Copper corrosion	1a
	1 19	Anti-wear properties	0 4
	1 20	De-airing	21
	1 21	Water content	< 0,04
	1 22	Base oil type & ratio	100 % Gp III
	1 23	TOC	Classe 2
	1 24	MCT	9 6 / 250°C
	1 25	Auto-ignition T*	330

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	NA
	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)	19 05 2015
	Sample delivery (dd/mm/yyyy)	19 05 2015
Certificate	Certificate serial number	RN0710-15-22
	Delivered on (dd/mm/yyyy)	28. 10. 2019
	Valid till (dd/mm/yyyy)	28. 10. 2023
	Letter ref (NDS)	KCM7300-2019-19051

Renault: Date, Name, Signature

28. 10. 2019
SERBAN Gabriel
Alexandru


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

23 Oct 2019
Taewon Chung
