

Renault RN710 certificate

Identification		Supplier	SK Lubricants co Ltd
		Product name	ZIC X9 5W-40
		ACEA	A3/B4-12
	1 1	Grade	5W-40

Lab performance	1 2	Shear stability	13 30
	1 3	HTHS	3 70
	1 4	Kinematic viscosity (40°C)	82 8
		Kinematic viscosity (100°C)	13 80
	1 5	Noack	10 2
	1 6	Calcium	2700
		Zinc	1050
		Magnesium	0
		Sulphur	0 20
		Phosphorus	950
		Chlorine	10
		Molybdenum	0
		Barium	0
	1 7	Silicon	5
		Boron	70
	1 7	Sulphated Ash	1 1
	1 8	TAN	2 6
	1 9	TBN	10 1
	1 10	RE1 - FPM	PASS (A/K6)
		RE2/99 - ACM	PASS (ACM)
		RE3/04 - VMQ	PASS
		RE4 - NBR	PASS (NBR34)
		AEM - VAMAC	PASS (AEM)
1 11	Foaming Seq1	0/0	
	Foaming Seq2	10/0	
	Foaming Seq3	0/0	
1 12	Foaming Seq4	30/0	
1 13	CCS	5780 @ -30°C	
1 14	Pumping Limit T* (MRV)	29300 @ -35°C	

Lab performance (continued)	1 15	Density	852
	1 16	Open-vessel flash point	228
	1 17	Pour point	-39
	1 18	Copper corrosion	1a
	1 19	Anti-wear properties	0 47
	1 20	De-airing	25
	1 21	Water content	<0 04
	1 22	Base oil type & ratio	100% Gr III
	1 23	TOC	Classe 2
	1 24	MCT	9 3
	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	NR
	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	RN0710-15-23
	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

23th Oct 2019

Taemnon Chung


