

## Renault RN720 certificate

Identification	Supplier	Champion Chemicals N.V.
	Formula name	CHAMPION OEM SPECIFIC 5W30 C4
	ACEA	C4-16
	Grade	5W-30


Lab performance	1.02	Shear stability	11.71
	1.03	HTHS (150°C)	3.5
	1.04	HTHS (100°C)	7.55
	1.05	Kinematic viscosity 40°C	67.93
		Kinematic viscosity 100°C	11.95
	1.06	Noack	10.4
	1.07	Calcium	1070
		Zinc	810
		Magnesium	<10
		Sulphur	0.2
		Phosphorus	710
		Chlorine	<5
		Molybdenum	<1
		Barium	<10
		Silicon	<1
		Boron	4
	1.08	Sulphated Ash	0.45
	1.09	TAN	1.7
	1.10	TBN	6.5
	1.11	RE6 - FKM	PASS
RE7 - ACM		PASS	
RE8 - HNBR		PASS	
RE9 - AEM		PASS	
1.12	Foaming Seq1	0/0	
	Foaming Seq2	0/0	
	Foaming Seq3	0/0	
1.13	Foaming Seq4	30/0	
1.14	Low temperature Cranking viscosity(CCS)	6010@-30°C	
1.15	Low temperature Pumping viscosity (MRV)	28900@-35°C	

Lab performance (continued)	1.16	Density	850.2
	1.17	Open-vessel flash point	237
	1.18	Pour point	-39
	1.19	Copper corrosion	1b
	1.20	Anti-wear properties	0,48
	1.21	De-airing	15.9
	1.22	Water content, %	<0.04
	1.23	Water conten, ppm	284
	1.24	Base oil type & ratio	Gr.3 100%
	1.25	TOC	Classe 3
	1.26	MCT	8.0 / 258°C
	1.27	Oil oxidation with Biodiesel	PASS
ACEA Engine tests performance	1.28	Low temperature Pumping viscosity	27600@-35
	2.01	EP6CDT cleanliness test	PASS
	2.02	Seq VG low temperature sludge	PASS
	2.03	M271 black sludge	PASS
	2.04	M111 fuel economy	2.1
	2.05	DV6C dispersivity	PASS
	2.06	OM646LA Wear, Viscosity stability & oil consumption	PASS
	2.07	VW TDI piston cleanliness & ring sticking	PASS
	2.08	OM646LA Biodiesel Effects	PASS

LLR	2.09	Renault LLR	PASS
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	28.01.2019
	Sample delivery (dd/mm/yyyy)	31.01.2019
Certificate	Certificate serial number	RN720-19-10
	Delivered on (dd/mm/yyyy)	14.03.2019
	Valid till (dd/mm/yyyy)	14.03.2023
	Letter reference	KCM7300-2019-18512

Renault: Date, Name, Signature

14.03.2019  
 Ruza Akhmedova  


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.

14/03/2019  
 Kathleen Adriaenssens  
