



Renault RN700 certificate

Identification	1.01	Supplier	Champion Chemicals N.V.
		Formula name	CHAMPION OEM SPECIFIC 5W30 MS-F (65609)
		ACEA	A5/B5-16
		Grade	5W-30

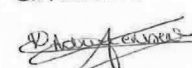
Lab performance	1.02	Shear stability	9.4
	1.03	HTHS (150°C)	2.9
	1.04	HTHS (100°C)	6.2
	1.05	Kinematic viscosity 40°C	52.9
		Kinematic viscosity 100°C	9.6
	1.06	Noack	12.2
	1.07	Calcium	2687
		Zinc	1051
		Magnesium	0
		Sulphur	0.25
		Phosphorus	958
		Chlorine	10
		Molybdenum	0
		Barium	0
		Silicon	6
		Boron	70
	1.08	Sulphated Ash	1.1
	1.09	TAN	3.0
	1.10	TBN	10.1
	1.11	RE6 - FKM	PASS
		RE7 - ACM	PASS
		RE8 - HNBR	PASS
		RE9 - AEM	PASS
	1.12	Foaming Seq1	0/0
		Foaming Seq2	10/0
		Foaming Seq3	0/0
	1.13	Foaming Seq4	70/0
	1.14	Low temperature Cranking viscosity(CCS)	3930@-30°C
	1.15	Low temperature Pumping viscosity (MRV)	14700@-35°C

Lab performance (continued)	1.16	Density	852
	1.17	Open-vessel flash point	232
	1.18	Pour point	-42
	1.19	Copper corrosion	1a
	1.20	Anti-wear properties	0.48
	1.21	De-airing	14
	1.22	Water content, %	<0.04
	1.23	Water content, ppm	65
	1.24	Base oil type & ratio	Gr.3 100%
	1.25	TOC	Classe 2
	1.26	MCT	9.2 / 246
	1.27	Oil oxidation with Biodiesel	PASS
	1.28	Low temperature Pumping viscosity	17100@-35
ACEA Engine tests performance	2.01	EP6CDT cleanliness test	PASS
	2.02	Seq VG low temperature sludge	PASS
	2.03	TU3M cam wear	NA
	2.04	M271 black sludge	PASS
	2.05	M111 fuel economy	3.1
	2.06	DV6C dispersivity	PASS
	2.07	OM646LA Viscosity stability & oil consumption	PASS
	2.08	VW TDI piston cleanliness & ring sticking	PASS
	2.09	OM646LA Biodiesel Effects	PASS

LLR	2.10	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)	30.11.2020
	Sample delivery (dd/mm/yyyy)	18.12.2020
Certificate	Certificate serial number	RN700-21-14
	Delivered on (dd/mm/yyyy)	18.01.2021
	Valid till (dd/mm/yyyy)	18.01.2025
	Letter reference	QBT7300-2021-20482

Renault: Date, Name, Signature
18.01.2021 Gabriel Alexandru SERBAN 

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. 18.01.2021  Kathleen Adriaenssens