



Renault RN720 certificate

Identification	Supplier	Wolf Oil Corporation N.V.
	Formula name	WOLF OFFICIALTECH 5W30 C4
		65608
	ACEA	C4-16
1.01	Grade	5W-30

Lab performance	1.02	Shear stability	11.9
	1.03	HTHS (150°C)	3.5
	1.04	HTHS (100°C)	7.7
	1.05	Kinematic viscosity 40°C	71.7
		Kinematic viscosity 100°C	12.0
	1.06	Noack	8.9
	1.07	Calcium	0
		Zinc	545
		Magnesium	944
		Sulphur	0.14
		Phosphorus	505
		Chlorine	16
		Molybdenum	0
		Barium	0
		Silicon	5
	Boron	66	
	1.08	Sulphated Ash	0.49
	1.09	TAN	1.3
	1.10	TBN	8.0
	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	100/0	
1.14	Low temperature Cranking viscosity(CCS)	5720@-30°C	
1.15	Low temperature Pumping viscosity (MRV)	22400@-35°C	

Lab performance (continued)	1.16	Density	850
	1.17	Open-vessel flash point	244
	1.18	Pour point	-39
	1.19	Copper corrosion	1a
	1.20	Anti-wear properties	0.5
	1.21	De-airing	19
	1.22	Water content, %	<0.04
	1.23	Water conten, ppm	78
	1.24	Base oil type & ratio	Gr.3 100%
	1.25	TOC	Classe 3
	1.26	MCT	7.7 / 257
	1.27	Oil oxidation with Biodiesel	PASS
1.28	Low temperature Pumping viscosity	22600@-35	
ACEA Engine tests performance	2.01	EP6CDT cleanliness test	PASS
	2.02	Seq VG low temperature sludge	PASS
	2.03	TU3M cam wear	PASS
	2.04	M271 black sludge	PASS
	2.05	M111 fuel economy	1.3
	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	PASS
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	07.04.2020
	Sample delivery (dd/mm/yyyy)	27.04.2020
Certificate	Certificate serial number	RN720-20-10
	Delivered on (dd/mm/yyyy)	06.05.2020
	Valid till (dd/mm/yyyy)	06.05.2024
	Letter reference	QBT7300-2020-19755

Renault: Date, Name, Signature

06.05.2020
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.

06/05/2020

Kathleen Adriaenssens