



Renault RN720 certificate


Identification	Supplier	WOLF OIL Corporation NV
	Formula name	WOLF OFFICIALTECH 5W30 C4
		65608
	ACEA	C4-21
	1.01 Grade	5W-30

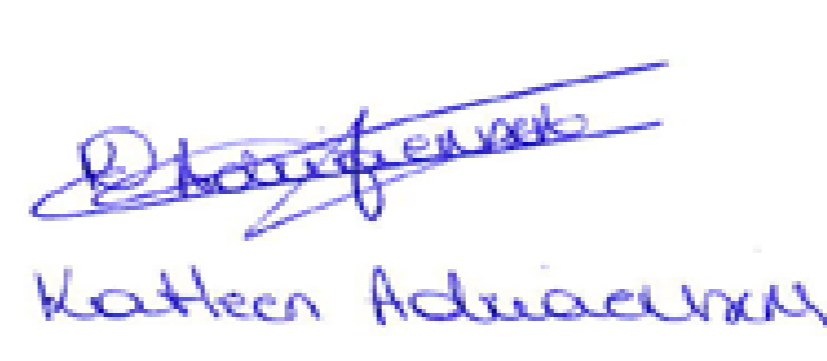
Lab performance	1.02	Shear stability	11.79
	1.03	HTHS (150°C)	3.5
	1.04	HTHS (100°C)	7.55
	1.05	Kinematic viscosity 40°C	67.93
		Kinematic viscosity 100°C	11.95
	1.06	Noack	10.4
	1.07	Calcium	1070
		Zinc	810
		Magnesium	<10
		Sulphur	0.2
		Phosphorus	710
		Chlorine	<5
		Molybdenum	<1
		Barium	<10
		Silicon	<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)	5710@-30°C	
1.15	Low temperature Pumping viscosity (MRV)	28900@-35°C	

Lab performance (continued)	1.16	Density	850.1
	1.17	Open-vessel flash point	242
	1.18	Pour point	-39
	1.19	Copper corrosion	1b
	1.20	Anti-wear properties	0.48
	1.21	De-airing	17.9
	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 / 259
	1.27	Oil oxidation with Biodiesel	PASS
	1.28	Low temperature Pumping viscosity	27600@-35°C
ACEA Engine tests performance	2.01	EP6CDT high temperature deposits	PASS
	2.02	Sequence VH low temperature sludge	PASS (Sequence VG)
	2.03	Valvetrain Wear Seq. IVB	PASS (Seq. IVA)
	2.04	M271 EVO black sludge	PASS (M271)
	2.05	M111 fuel economy	2.1
	2.06	DV6C dispersivity	PASS
	2.07	VW TDI piston cleanliness & ring sticking	PASS (VW TDI2)

LLR	2.08	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)	19.01.2023
	Sample delivery (dd/mm/yyyy)	31.01.2019
Certificate	Certificate serial number	RN720-23-02
	Delivered on (dd/mm/yyyy)	01.03.2023
	Valid till (dd/mm/yyyy)	14.03.2027
	Letter reference	QBT7300-2023-21505

Renault: Date, Name, Signature	
1st March 2023	<p>Ana-Maria-Silvia MATHE PMR Function Pilot & LTL Polymers</p> 

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.	
20/02/2023	 Katerin Achucanov