

## Renault RN17FE certificate

<b>Identification</b>	Supplier	Wolf Oil Corporation N.V.
	Product name	WOLF OFFICIALTECH 0W20 C5 RFE 65635
	ACEA	C5-16
	Grade	0W20

<b>Lab performance</b>	Shear stability	8.2
	HTHS	2.7
	Kinematic viscosity (40°C)	39
	Kinematic viscosity (100°C)	8.2
	Noack	10.6
	Calcium	1910
	Zinc	863
	Magnesium	0
	Sulphur	2050
	Phosphorus	762
	Chlorine	16
	Molybdenum	100
	Barium	0
	Silicon	4
	Boron	72
	Potassium	0
	Sodium	0
	Nitrogen	1141
	Sulphated Ash	0.8
	TAN	2.3
	TBN	8.4
	RE6 (FKM)	PASS
	RE7 (ACM)	PASS
	RE8 (HNBR)	PASS
	RE9 (AEM)	PASS
	Foaming Seq1	0/0
	Foaming Seq2	10/0
	Foaming Seq3	0/0
Foaming Seq4	90/0	
CCS	4650@-35°C	
Pumping limit T* (MRV)	16200@-40°C	

<b>Lab performance (continued)</b>	Density	841
	Open-vessel flash point	227
	Pour point	-48
	HTCBT	PASS
	De-airing	9
	Water content	<0.04
	Base oil type & ratio	87%Gr3+13%Gr4
	TOC	Classe 4
	MCT	7.7 / 249

<b>ACEA Engine tests performance</b>	EP6CDT high temperature deposits	PASS
	Seq VG low temperature sludge	PASS
	M271 black sludge	PASS
	M111 fuel economy	3.1
	DV6 dispersivity	PASS
	OM646LA Viscosity stability et oil consumption	PASS
	VW DI piston cleanliness & ring sticking	PASS
	OM646LA Bio effect of biodiesel	PASS

<b>LLR</b>	Renault LLR test	PASS
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<b>RFF wear</b>	Renault RFF test	PASS
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<b>Fuel economy</b>	Renault FE test	PASS
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<b>Renault Registration Data (to be filled by Renault's delegate only)</b>		
<b>Registration</b>	Final Technical data (dd/mm/yyyy)	06.03.2020
	Sample delivery (dd/mm/yyyy)	11.03.2020
<b>Certificate</b>	Certificate serial number	<b>RN17FE-20-03</b>
	Delivered on (dd/mm/yyyy)	27.03.2020
	Valid till (dd/mm/yyyy)	27.03.2024
	Letter reference	QBT7300-2020-19538

<b>Renault : Date, Name, Signature</b>
<p>SERBAN GABRIEL ALEXANDRU 27/03/2020</p>

<b>Supplier commitment: Date, Name, Signature</b>
<p>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.</p> <p>27/03/2020</p> <p>Katrien Adriaenssens</p>