



Renault RN710 certificate

Identification		Supplier	YACCO
		Product name	YACCO LUBE FR 5W40 YA1079
		ACEA	A3/B4-04
	1.1	Grade	5W40

Lab performance	1.2	Shear stability	12,75
	1.3	HTHS	3,85
	1.4	Kinematic viscosity (40°C)	90,0
		Kinematic viscosity (100°C)	14,52
	1.5	Noack	12,6
	1.6	Calcium	2960
		Zinc	1220
		Magnesium	15
		Sulphur	0,37
		Phosphorus	1070
		Chlorine	19
		Molybdenum	<1
		Barium	<10
		Silicon	10
		Boron	120
	1.7	Sulphated Ash	1,13
	1.8	TAN	3,1
	1.9	TBN	9,6
	1.10	RE1 - FPM	PASS
		RE2/99 - ACM	PASS
		RE3/04 - VMQ	PASS
		RE4 - NBR	PASS
		AEM - VAMAC	PASS
	1.11	Foaming Seq1	10/0
		Foaming Seq2	10/0
		Foaming Seq3	0/0
	1.12	Foaming Seq4	100/0
	1.13	CCS	6600
	1.14	Pumping limit T° (MPV)	-35

Lab performance (continued)	1.15	Density	857,4
	1.16	Open-vessel flash point	232
	1.17	Pour point	-33
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,4
	1.20	De-silting	22
	1.21	Water content	<0,05
	1.22	Base oil type & ratio	100% Gr. III
	1.23	TOC	Classe 2
	1.24	MCT	8,2
	1.25	Auto-ignition T°	380

ACEA Engine tests performance	2.1	TUSJP high temperature deposits	PASS
	2.2	Seq VIG low temperature sludge	PASS
	2.3	TU2M cam wear	PASS
	2.4	M111 black sludge	PASS
	2.5	M111 fuel economy	non requis
	2.6	DV4TD dispersivity	PASS
	2.7	OM545 Viscosity stability et oil consumption	PASS
	2.8	VW DI piston cleanliness & ring sticking	PASS

LLR	3.1	Renault LLR	-
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical date (dd/mm/yyyy)	23/06/2009
	Sample delivery (dd/mm/yyyy)	23/06/2009
	Renault lab serial registry (FLU)	FLU0900156
Certificate	Certificate serial number	RN0710-09-19
	Delivered on (dd/mm/yyyy)	31/05/2011
	Valid till (dd/mm/yyyy)	31/05/2016
	Letter ref (NDS)	68150-09-9262

Renault: Date, Name, Signature

31/05/2011

Jean-Michel TRICHARD
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TCR LAB 2 52
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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

le 26/05/2011
Petit
Denis PETIT