



CHANGEONS DE VIE
CHANGEONS L'AUTOMOBILE

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API : TCR LAB 1 53
Grégory ALEXANDRE

Réf. 68150-2014-298

Le 10/09/2014

Jean DHELLEMES
DURAND production S.A.S.
Z.A. de la motte du bois
62440
HARNES
FRANCE

Objet : Certificats RN – DURAND - huile moteur - RN0700/710/720.

Monsieur Dhellemmes,

Veillez trouver ci-joint les certificats d'homologation des lubrifiants moteur répondant aux normes Renault RN0700/710.

Noms commerciaux : « ISOTECH specific C2 », « Aréca F7002 », « Valco C2 » :

- IME0802779-A, A1/B1/A5/B5/C2-10, SAE 5w-30 : **RN0700-14-43**

Noms commerciaux : « ISOTECH HI-TECH », « Aréca F6003 », « Valco C3 » :

- IME15002-A, A3/B4-04 & C3-10, SAE 5w-40 : **RN0700-14-44 & RN0710-14-37**

Noms commerciaux : « ISOTECH specific C4 », « Aréca F7004 », « Valco C4 » :

- IME1007245-B, C4-10, SAE 5w-30 : **RN0720-14-10**

Ces certificats sont valables jusqu'au **09/09/2018**.

Veillez recevoir monsieur, mes meilleures salutations distinguées.

Arnaud MORIZOT
Chef de Service
« Matériaux polymères & fluides »

PJ : 4 Certificats.



Renault RN700 certificate

Identification	Supplier	DURAND Production
	Product name	ISOTECH Specific C2 Aréca F7002 Valco 5W30 C2 (IME0802779-D)
	ACEA	A1/B1/A5/B5/C2-10
	1.1 Grade	5w30

Lab performance	1.2	Shear stability	10,20
	1.3	HTHS	3,10
	1.4	Kinematic viscosity (40°C)	61,7
		Kinematic viscosity (100°C)	10,50
	1.5	Noack	9
	1.6	Calcium	1833
		Zinc	886
		Magnesium	0
		Sulphur	0,20
		Phosphorus	800
		Chlorine	10
		Molybdenum	0
		Barium	0
		Silicon	5
	Boron	70	
	1.7	Sulphated Ash	0,8
	1.8	TAN	2,8
	1.9	TBN	8
	1.10	RE1 - FPM	PASS
		RE2/99 - ACM	PASS
RE3/04 - VMQ		PASS	
RE4 - NBR		PASS	
AEM - VAMAC		PASS	
1.11	Foaming Seq1	0/0	
	Foaming Seq2	0/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	50/0	
1.13	CCS	5545@-30	
1.14	Pumping limit T* (MRV)	23200@-35	

Lab performance (continued)	1.15	Density	853
	1.16	Open-vessel flash point	238
	1.17	Pour point	-36
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,45
	1.20	De-airing	15
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	100% Gp III
	1.23	TOC	Classe2
	1.24	MCT	8
	1.25	Auto-ignition T*	337

ACEA Engine tests performance	2.1	TU5JP high temperature deposits	Pass
	2.2	Seq VG low temperature sludge	Pass
	2.3	TU3M cam wear	Pass
	2.4	M111 black sludge	Pass
	2.5	M111 fuel economy	2,6
	2.6	DV4TD dispersivity	Pass
	2.7	OM648 Viscosity stability et oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	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)	07/05/2014
	Sample delivery (dd/mm/yyyy)	03/06/2014
Certificate	Certificate serial number	RN0700-14-43
	Delivered on (dd/mm/yyyy)	09/09/2014
	Valid till (dd/mm/yyyy)	09/09/2018
	Letter ref (NDS)	68150-2014-298

Renault: Date, Name, Signature

09/09/2014

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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 2 septembre 2014
Jean Delemer



Renault RN700 certificate

Identification	Supplier	DURAND production
	Product name	ISOTECH HI-TECH ARECA F8003 Valco 5W40 C3 (IME15002-A)
	ACEA	A3/B4-04 / C3-10
	1.1 Grade	5W-40

Lab performance	Kinematic viscosity (40°C)	84,4	
	Kinematic viscosity (100°C)	14,0	
	1.2 Shear stability	14,0	
	1.3 HTHS	3,7	
	1.4 Noack	8,5	
	Calcium	1800	
		Zinc	900
		Magnesium	0
	1.5 Sulphur	0,20	
	1.6 Phosphorus	800	
	1.7 Sulphated Ash	0,8	
	1.8 Chlorine	10	
	TAN	2,5	
	1.9 TBN	8	
	1.10	RE1 - FPM	PASS
		RE2/99 - ACM	PASS
RE3/04 - VMQ		PASS	
RE4 - NBR		PASS	
AEM - VAMAC		PASS	
1.11	Foaming Seq1	0/0	
	Foaming Seq2	10/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	50/0	
1.13	CCS	6150	
1.14	Pumping limit T° (MRV)	-35	
1.15	Density	854,4	
1.16	Open-vessel flash point	246	

Lab performance (continued)	1.17	Pour point	-30
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,36
	1.20	De-airing	26,5
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	Grp III / 100%
	1.23	TOC	Classe 2
	1.24	MCT	7,6
	1.25	Auto-ignition T°	385

ACEA Engine tests performance	2.1	TU5JP high temperature deposits	PASS
	2.2	Seq VG low temperature sludge	PASS
	2.3	TU3M cam wear	PASS
	2.4	M111 black sludge	PASS
	2.5	M111 fuel economy	PASS
	2.6	DV4TD dispersivity	PASS
	2.7	VW DI piston cleanliness & ring sticking	PASS
	2.8	OM648LA	PASS (OM602A)

LLR	3.1	Renault LLR	NA
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Renault Registration Data (to be filled by Renault's delegate only)			
Registration	Final Technical data (dd/mm/yyyy)	07/05/2014	
	Sample delivery (dd/mm/yyyy)	14/05/2014	
	Renault lab serial registry (FLU)	-	
Certificate	Certificate serial number	RN0700-14-44	
	Delivered on (dd/mm/yyyy)	09/09/2014	
	Valid till (dd/mm/yyyy)	08/09/2018	
	Letter ref (NDS)	68150-2014-298	

Supplier commitment: Date, Name, Signature

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le 2 septembre 2014
Jean-Michel Trichard

Renault: Date, Name, Signature

09/09/2014

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Renault RN710 certificate

Identification	Supplier	DURAND production
	Product name	ISOTECH HI-TECH Aréca F6003 Valco 5W40 C3 (IME15002-A)
	ACEA	A3/B4-04 / C3-10
	1.1 Grade	5W-40

Lab performance	Kinematic viscosity (40°C)	84,4	
	Kinematic viscosity (100°C)	14,0	
	1.2 Shear stability	14,0	
	1.3 HTHS	3,7	
	1.4 Noack	8,5	
	Calcium	1800	
		Zinc	900
		Magnesium	0
	1.5 Sulphur	0,20	
	1.6 Phosphorus	800	
	1.7 Sulphated Ash	0,8	
	1.8 Chlorine	10	
	TAN	2,5	
	1.9 TBN	8	
	1.10	RE1 - FPM	PASS
		RE2/99 - ACM	PASS
RE3/04 - VMQ		PASS	
RE4 - NBR		PASS	
AEM - VAMAC		PASS	
1.11	Foaming Seq1	0/0	
	Foaming Seq2	10/0	
	Foaming Seq3	0/0	
1.12	Foaming Seq4	50/0	
1.13	CCS	6150	
1.14	Pumping limit T* (MRV)	-35	
1.15	Density	854,4	
1.16	Open-vessel flash point	246	

Lab performance (continued)	1.17	Pour point	-30
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,36
	1.20	De-airing	26,5
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	Grp III / 100%
	1.23	TOC	Classe 2
	1.24	MCT	7,6
	1.25	Auto-ignition T*	385

ACEA Engine tests performance	2.1	TU5JP high temperature deposits	PASS
	2.2	Seq VG low temperature sludge	PASS
	2.3	TU3M cam wear	PASS
	2.4	M111 black sludge	PASS
	2.5	M111 fuel economy	PASS
	2.6	DV4TD dispersivity	PASS
	2.7	VW DI piston cleanliness & ring sticking	PASS
	2.8	OM646LA	PASS (OM602A)

LLR	3.1	Renault LLR	NA
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Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	07/05/2014
	Sample delivery (dd/mm/yyyy)	14/05/2014
	Renault lab serial registry (FLU)	-
Certificate	Certificate serial number	RN0710-14-37
	Delivered on (dd/mm/yyyy)	09/09/2014
	Valid till (dd/mm/yyyy)	09/09/2018
	Letter ref (NDS)	68150-2014-298

Supplier commitment: Date, Name, Signature	
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<p>le 2 septembre 2014 Jean Dellempes</p>	

Renault: Date, Name, Signature
<p>09/09/2014</p> <p>Jean-Michel TRICHARD Service 68160 TCR LAB 2.52 Tél. : 01.76.85.74.58 Fax : 01.76.89.08.85</p>



Renault RN720 certificate



Identification	Supplier	DURAND Production
	Product name	ISOTECH Specific C4 Aréca F7004 Valco 5W30 C4 (IME 1007245-B)
	ACEA	C4-10
	1.1 Grade	5W30

Lab performance	1.2	Shear stability	12,10
	1.3	HTHS	3,56
	1.4	Kinematic viscosity (40°C)	72,1
		Kinematic viscosity (100°C)	12,22
	1.5	Noack	9,4
	1.6	Calcium	0
		Zinc	575
		Magnesium	982
		Sulphur	0,15
		Phosphorus	518
		Chlorine	17
		Molybdenum	0
		Barium	0
	1.7	Silicon	5
Boron		65	
1.7	Sulphated Ash	0,5	
1.8	TAN	1,5	
1.9	TBN	8	
1.10	RE1 - FPM	PASS	
	RE2/99 - ACM	PASS	
	RE3/04 - VMQ	PASS	
	RE4 - NBR	PASS	
	AEM - VAMAC	PASS	
1.11	Foaming Seq1	0 - 0	
	Foaming Seq2	20 - 0	
	Foaming Seq3	0 - 0	
1.12	Foaming Seq4	80 - 0	
1.13	CCS	5830 @ -30	
1.14	Pumping limit T* (MRV)	29600 @ -35	

Lab performance (continued)	1.15	Density	849,9
	1.16	Open-vessel flash point	248
	1.17	Pour point	-42
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0,4
	1.20	De-airing	14
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	100% Gr III
	1.23	TOC	Classe 3
	1.24	MCT	8,2
	1.25	Auto-ignition T*	344

ACEA Engine tests performance	2.1	TU5JP high temperature deposits	Pass
	2.2	Seq VG low temperature sludge	Pass
	2.3	TU3M cam wear	Pass
	2.4	M111 black sludge	Pass
	2.5	M111 fuel economy	1,8
	2.6	DV4TD dispersivity	Pass
	2.7	OM646 Viscosity stability at oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	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)	07/05/2014
	Sample delivery (dd/mm/yyyy)	03/06/2014
Certificate	Certificate serial number	RN0720-14-10
	Delivered on (dd/mm/yyyy)	09/09/2014
	Valid till (dd/mm/yyyy)	09/09/2018
	Letter ref (NDS)	68150-2014-298

Renault: Date, Name, Signature

09/09/2014

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Supplier commitment: Date, Name, Signature

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le 2 septembre 2014
 Jean Dedlemmes