



Identification	Supplier	SK Lubricants co. Ltd.
	Product name	ZIC X9 SW-40
	ACEA	A3 / B4-08
	Grade	SW-40

Laboratory	1.2	Shear stability	13.30
	1.3	HTHS	3.70
	1.4	Kinematic viscosity (40°C)	82.8
		Kinematic viscosity (100°C)	13.80
	1.5	Flash	10.2
	1.8	Calcium	2700
		Zinc	1050
		Magnesium	0
		Sulphur	0.20
		Phosphorus	950
		Chlorine	10
		Molybdenum	0
		Barium	0
		Silicon	5
		Boron	70
	1.7	Sulphated Ash	1.1
	1.6	TAN	2.0
	1.9	TBN	10.1
	1.10	RE1 - FPM	PASS (AK6)
		RE289 - ACM	PASS (ACM)
RE304 - VMQ		PASS	
RE4 - NBR		PASS (NBR34)	
AEM - VAMAC		PASS (AEM)	
1.11	Foaming Seq1	0 - 0	
	Foaming Seq2	10 - 0	
	Foaming Seq3	0 - 0	
1.12	Foaming Seq4	30 - 0	
1.13	CCS	5780 @ -30	
1.14	Pumping limit T* (MRV)	26300 @ -35	

Laboratory	1.15	Density	852
	1.16	Open-vessel flash point	228
	1.17	Pour point	-30
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.47
	1.20	De-airing	25
	1.21	Water content	<0.04
	1.22	Base oil type & ratio	100% Gr III
	1.23	TCC	Classe 2
	1.24	IMCT	9.3
	1.25	Auto-ignition T*	258

ACEA/ Renault's Parameters	2.1	TUSJP high temperature deposits	Pass
	2.2	Seq VQ low temperature sludge	Pass
	2.3	TUM cam wear	Pass
	2.4	M111 black sludge	Pass
	2.5	M111 fuel economy	NR
	2.6	DV4TD dispersibility	Pass
	2.7	OM644 Viscosity stability at 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 data (dd/mm/yyyy)	2015-05-19
	Sample delivery (dd/mm/yyyy)	2015-05-19
Certificate	Certificate serial number	RN0700-15-25
	Delivered on (dd/mm/yyyy)	05/06/2015
	Valid till (dd/mm/yyyy)	05/06/2019
	Letter ref (NDS)	68150-2015-139

Renault: Date, Name, Signature

05/06/2015

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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 of Renault-certified (with agreement process) testing facilities.

02 June 2015 *Jungsk van*

Jungsk van

