



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

Lubrification	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	Noack	10.2
		Calcium	2700
	1.6	Zinc	1050
		Magnesium	0
		Sulphur	0.20
		Phosphorus	950
		Choline	10
		Molybdenum	0
		Barium	0
		Silicon	5
		Boron	70
		1.7	Sulphated Ash
	1.8	TAN	2.8
	1.9	TBN	10.1
	1.10	RE1 - FPM	PASS (AK6)
		RE299 - ACM	PASS (ACM)
RE304 - VAG		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	

Lubrification (continued)	1.15	Density	852
	1.16	Open-iness of flash point	228
	1.17	Pour point	-39
	1.18	Copper corrosion	1a
	1.19	Anti-wear properties	0.47
	1.20	Devising	25
	1.21	Water content	<0,04
	1.22	Base oil type & ratio	100% Gr III
	1.23	TOC	Class 2
	1.24	MCT	0.3
	1.25	Auto-ignition T°	358

ASB (Automotive Seals & Components)	2.1	TUSIP high temperature deposits	Pass
	2.2	Seq VQ low temperature sludge	Pass
	2.3	TUSM cam wear	Pass
	2.4	M111 black sludge	Pass
	2.5	M111 fuel economy	NR
	2.6	DVATD dispersivity	Pass
	2.7	DM648 Viscosity stability et oil consumption	Pass
	2.8	VW DI piston cleanliness & ring sticking	Pass

LLR	3.1	Renault LLR	-
-----	-----	-------------	---

Renault Registration Data (to be filled by Renault's delegate only)		
Registration	Final Technical data (dd/mm/yyyy)	2015-05-10
	Sample delivery (dd/mm/yyyy)	2015-05-19
Certificate	Certificate serial number	RN0710-15-23
	Delivered on (dd/mm/yyyy)	05/06/2015
	Valid till (dd/mm/yyyy)	05/06/2019
	Letter ref (NDB)	68150-2015-139

Renault: Date, Name, Signature

05/06/2015

Jean-Michel TRICHARD
 Service 68160
 TCR LAB 2 52
 Tél. : 01.76.85.74.58
 Fax : 01.76.89.06.85

Trichard

Supplier commitment: Date, Name, Signature

I hereby certify that all data submitted in this form is correct and have been Renault approved independent of Renault-certified (pre-approval process) testing facilities.

02 June 2015

Yuan 2015

Jung

