



## CEC REFERENCE OR STANDARDISATION OIL DATA SHEET

RL Number :	RL208/2
Issue Date :	Minutes CEC SL 040 – 10th *October 2011
Supersedes :	

**Purpose :**

Standardization oil for lubricating evaporative losses  
Method CEC L-40-93

**Characteristics :**

Characteristics	Method	Value	Unit
SAE Grade		n.a.	
Density @ 15°C	ASTM D4052 / D1298	0.869	g/cm <sup>3</sup>
Flash Point	ASTM D92	224	°C
Pour Point	ASTM D97 / ASTM D5950	-12	°C
KV @ 100°C	ASTM D445	6.082	mm <sup>2</sup> /s
KV @ 40°C	ASTM D445	38.81	mm <sup>2</sup> /s
VI	ASTM D2270	101	
CCS Visc @ -20°C	ASTM D5293	-	mPas
TBN (perchloric)	ASTM D2896	-	mg KOH/g
TAN	ASTM D664	-	mg KOH/g
Sulphated ash	ASTM D874	-	% mass
IR comparison with previous batch			

**Elemental Analysis :**

Zinc	ICP ASTM D5185	<0.001	% mass
Phosphorus	ICP ASTM D5185	<0.001	% mass
Calcium	ICP ASTM D5185	<0.001	% mass
Magnesium	ICP ASTM D5185	<0.001	% mass

CEC L-40-93	
NOACK Volatility* Corrected value RSD*	11.7 % mass  0.48
Control limits*	10.8 – 12.6
Warning limits	11.0 – 12.4

\* Noack volatility and precision values determined in the 2011 CEC round robin and approved by CEC SL 040 minutes 10th October 2011

Standard deviation of repeatability (= r / 2.8) ; Standard deviation of reproducibility (= R / 2.8)

**NOTE: When calculating results for reference oils, the 0.970 correction factor IS applied.**

**History/originated by :**

3400 liters blended

Oil blended in February, 2011 at Shell Global Solutions Deutschland GmbH.