

# Hydrocarbon Development Institute of Pakistan

(Karachi Laboratories Complex)

ST-3, Sector 47, Korangi Creek, Near Pakistan Refinery Ltd., Karachi-75190  
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## TEST REPORT

**Ref.No.** HDIP/ILO/2014/350  
**Code No.** B-3282

**Sample:** VALVOLINE PREMIUM BLUE 15W40 API CI-4/SL

**Ref. Custom** GD No.KAPW-HC-45576 Dt: 25-09-2014

**Source:** Sample collected by HDIP representative from Customs as per directive by OGRA

**Origin:** M/s. ORIENT ENERGY SYSTEMS (PVT) LTD.  
Plot # 9, Sector 24, Korangi Industrial Area, Karachi  
Tel: 021-35072091-94 Fax: 021-35072095

Report Issued:  
Date: 03-10-2014

Sample Received:  
Date: 02-10-2014

Method	Tests Description	Result
ASTM D-445	Kinematic Viscosity @ 100°C	cSt. 14.81
ASTM D-445	Kinematic Viscosity @ 40°C	cSt. 110.04
ASTM D-2270	Viscosity Index	- 139
ASTM D-92	Flash Point (COC)	°C 220
ASTM D-97	Pour Point	°C -27
ASTM D-2896	Total Base Number (TBN)	mgKOH/g 11.47
ASTM D-1298	Density at 15°C	Kg/L 0.8795

**Remarks:** To the extent of tests carried out, results of imported VALVOLINE PREMIUM BLUE SAE 15W/40 API CI-4/SL sample confirms to MP&NR specification.

(OFFICER INCHARGE)  
Karachi Labs. Complex

