



a subsidiary of  
**ALON** USA

14700 Downey Avenue  
P.O. Box 1418  
Paramount, CA 90723  
(562) 531-2060

**PRODUCT:** PG 64-10 ASPHALT CEMENT  
**CODE No:** 13221  
**DATE:** November 7, 2007  
**TANK No.:** 20002

**Purchaser:** \_\_\_\_\_  
**Destination:** \_\_\_\_\_  
**Transporter:** \_\_\_\_\_  
**Truck No.:** \_\_\_\_\_  
**Bill of Lading No.:** \_\_\_\_\_  
**Contract No.:** \_\_\_\_\_  
**Purchase Order No.:** \_\_\_\_\_

**Meets Specifications:** ASTM D 6373; AASHTO M 320; Caltrans Section 92; AGC Greenbook Section 203-1.

**CERTIFICATE OF COMPLIANCE**

TESTS	ASTM No.	AASHTO No.	SPECIFICATION	RESULT
<b>Tests on Original Asphalt:</b>				
Dynamic Shear, 64°C, G*/Sinδ, kPa	D 7175	T 315	1.00 min	1.16
Viscosity, 135°C, 21 Spindle, 20 RPM, Pa·s	D 4402	T 316	3 max	0.303
Flash Point, C.O.C., °C	D 92	T 48	230 min	313
Density, 15°C, Kg/m³	D 70	T 228	--	1.0204
Solubility in Trichloroethylene, wt. %	D 2042	T 44	99 min	99.84
<b>Tests on R.T.F.O. Residue:</b>				
Dynamic Shear, 64°C, G*/Sinδ, kPa	D 2872	T 240		
Mass Loss, %	D 7175	T 315	2.20 min	3.05
Ductility, 25°C, 5 cm/min, cm	D 2872	T 240	1.00 max	0.350
	D 113	T 51	75 min	135+
<b>Tests on P.A.V. Residue @ 100°C:</b>				
Dynamic Shear, 31°C, G*/Sinδ, kPa	D 6521	R 28		
Creep Stiffness, 0°C, S, MPa	D 7175	T 315	5000 max	2350
m-Value, 0°C	D 6648	T 313	300 max	31
	D 6648	T 313	0.300 min	0.480

Paramount Petroleum Corporation hereby certifies that the asphalt product accompanying this certificate was produced in accordance with an accepted certification program for suppliers of asphalt, and the above test data is representative of the shipment.

Data Compiled By: \_\_\_\_\_  
Asphalt Chemist

Released By: \_\_\_\_\_  
Refinery Shift Supervisor