



WORLD OIL
REFINING

9302 GARFIELD AVE

SOUTH GATE, CA 90280-1519

Product: **PG 64-10**

Date: **01/02-03/2019**

Tank: **10027**

Customer: _____

Destination: _____

Transporter: _____

Truck #: _____

Bill of Lading # _____

Load Date: _____

Load Time: _____

Loading Temp.: _____

Contract # _____

Tested @ **APART, Inc.**
5207 Minter Field Avenue
Shafter, CA 93263

(661) 393-2748



CERTIFICATE OF COMPLIANCE

Meets Specifications:

ASTM 6373; AASHTO M320

Test	Result	Test Method	Specification
Rotational Viscosity, 135°C, Pa·s	0.363	AASHTO T316	3.0 Maximum
Flash, COC, °C	316	AASHTO T48	230 Minimum
Solubility in TCE, w%	99.6	AASHTO T44	99.0 Minimum
Dynamic Shear Rheometer, 64°C Complex Viscosity, η^* , Pa·s G*, kPa Phase Angle, ° G*/Sin δ , kPa	146.2 1,470 87.2 1,472	AASHTO T315	1.00-2.00
RTFO-Aged Mass Change, w%	-0.063	AASHTO T240	1.00 Maximum
Dynamic Shear Rheometer, 64°C G*, kPa Phase Angle, ° G*/Sin δ , kPa	3,553 84.5 3,566	AASHTO T315	2.20 Minimum
Ductility, 25°C, cm	150+	AASHTO T51	75 Minimum
PAV-Aged, 2.1 MPa, 20 Hrs., 100°C		AASHTO R28	
Dynamic Shear Rheometer, 31°C G*, kPa Phase Angle, ° G*Sin δ , kPa	2240 50.9 1738	AASHTO T315	5000 Maximum
Bending Beam Rheometer, 0°C Stiffness, MPa m-value	38 0.424	AASHTO T313	300 Maximum 0.300 Minimum
Specific Gravity, 60°F API Gravity, 60°F	1.020 7.2	AASHTO T228	

Reported by: Bob Staugaard

Released By: Gus Moreno
Q.C. Lab Manager

World Oil hereby certifies that the asphalt product accompanying this certification was produced in accordance with the California Department of Transportation's certification program for suppliers of asphalt, and that this product complies in all respects with the Requirements of the applicable specifications for the asphalt product identified on this document.
World Oil hereby certifies that the above signature has the authority to represent the supplier providing the accompanying asphalt Product.
The Transport Vehicle for this shipment was checked before loading and found acceptable for the asphalt shipped.

PHONE (562) 928-7000 • FAX (562) 806-4032