

CERTIFICATE OF ANALYSIS

September 12, 2013

Report For: Arkansas Line Marking, LLC.
1024 Dreher Road
Little Rock, AR 72206

Attn: Kevin Tucker

Email: ktucker@conwaycorp.net

Sample ID: Untreated & Treated Samples	Project #: ARLM 01-02-01
Sample Location: Saline County Arkansas Airport	Type: Top 3/8" of Cores

OBJECTIVE: Evaluate pavement performance in accordance with the FAA P-632 Table 2 (pavement more than 3 years in age) Bituminous Pavement Rejuvenation specifications.

DATA/RESULTS:

Test	FAA P-632 Table 2 Specification	Test Method	Results		
			Untreated	Treated	% Change
Location 1 Recovered Binder					
Complex Modulus 60°C, G*, kPa	≥ 40%	AASHTO T 315	8.873	1.970	-77.8
Viscosity 60°C, η = G* / ω, Pa·s	Decrease		8,873	1,970	-77.8
Phase Angle 60°C, δ, °	Report		82.15	86.67	+5.5
Location 2 Recovered Binder					
Complex Modulus 60°C, G*, kPa	≥ 40%	AASHTO T 315	14.630	1.734	-88.1
Viscosity 60°C, η = G* / ω, Pa·s	Decrease		14,630	1,734	-88.1
Phase Angle 60°C, δ, °	Report		80.09	87.11	+8.8
Location 3 Recovered Binder					
Complex Modulus 60°C, G*, kPa	≥ 40%	AASHTO T 315	16.5	2.577	-84.4
Viscosity 60°C, η = G* / ω, Pa·s	Decrease		16,500	2,577	-84.4
Phase Angle 60°C, δ, °	Report		79.88	86.53	+8.3

CONCLUSION: The three locations are in accordance with the FAA P-632 Table 2 stating samples must be reduced by at least 40% of the control Viscosity.

PROCEDURE: All cores were saw-cut removing the top 3/8" layer of the core. The material was broken up and extracted using method ASTM D 2172 (Method A) with toluene and ASTM D 5404 to recover the binder. Complex Modulus, Viscosity, and Phase Angle were tested by AASHTO T 315.

Tested by:
Nadya Alvarez, Asphalt Binder Technician

Date: September 12, 2013

Reviewed by:
T. Christine Feaster, MS, EIT; Pavement Engineer

Date: September 12, 2013

ARLM 01-02-01

PRI's Accreditations: AASHTO/AAP; an ISO/IEC 17025 Lab

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