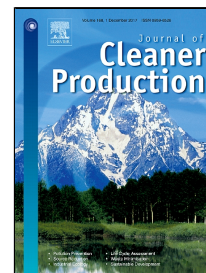


Accepted Manuscript

Investigating the Effectiveness of Vacuum Tower Bottoms for Asphalt Rubber Binder based on Performance Properties and Statistical Analysis

Amir Amini, Reza Imaninasab



PII: S0959-6526(17)32397-1
DOI: 10.1016/j.jclepro.2017.10.103
Reference: JCLP 10895
To appear in: *Journal of Cleaner Production*

Received Date: 02 June 2017
Revised Date: 02 October 2017
Accepted Date: 09 October 2017

Please cite this article as: Amir Amini, Reza Imaninasab, Investigating the Effectiveness of Vacuum Tower Bottoms for Asphalt Rubber Binder based on Performance Properties and Statistical Analysis, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.10.103

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- VTB has negative and positive effects on high and low temperatures performance, respectively.
- CRM is able to mitigate the negative effect of VTB on high temperature performance.
- Addition of both CRM and VTB improves intermediate temperature performance of neat binder.
- Introduction of both CRM and VTB into neat binder can improve PG 58-22 to PG 58-34 and PG 70-28 base on PG system.
- Influences of CRM and VTB on high and low temperature performance are statistically significant.

Download English Version:

<https://daneshyari.com/en/article/8100399>

Download Persian Version:

<https://daneshyari.com/article/8100399>

[Daneshyari.com](https://daneshyari.com)