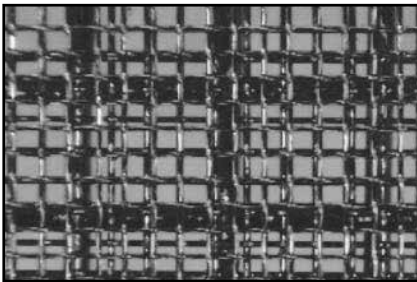
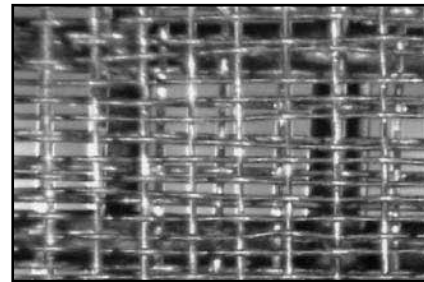


Derrick® PMD® V300 replacement screens vs. M-I SWACO® XR™ screens

- 9% increase in solids removal
- 38% oil on cuttings reduction
- 145% increase in screen life



Derrick V300 DX-A140



M-I SWACO XR-200

WASCO KMC Oiltools Limited was contracted by a major Nigerian offshore oil operator. Tests were done to perform a screen comparison evaluation to possibly enhance performance on existing VSM 300™ shakers.

Objective

Compare the performance of Derrick's V300 replacement screens to M-I SWACO's XR™ series screens with respect to cut point (solids removal), durability (screen life), and oil on cuttings.

Test Procedure

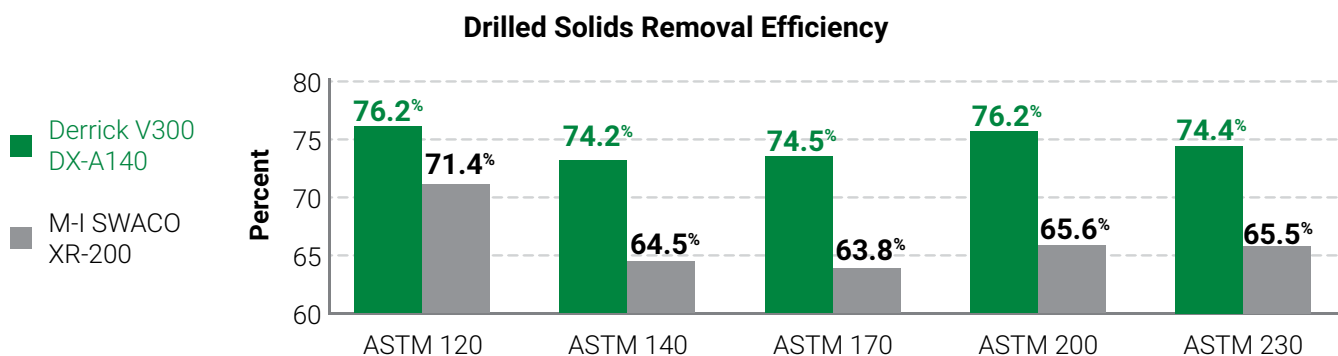
Shaker #1 and Shaker #2 were selected from a total of four shakers to achieve uniform flow distribution for the screen test. Screens utilized for the test were the Derrick® V300 DX™-A140 (API 140) and the M-I SWACO® XR-200 screen (API 140).

Drilling Parameters

- QTY Wells:** 1
- Hole Size:** 8.5"
- Footage:** 9950' to 13,535'
- Hours:** 49
- Flow (GPM):** 460
- Density (lb/gal):** 10.2

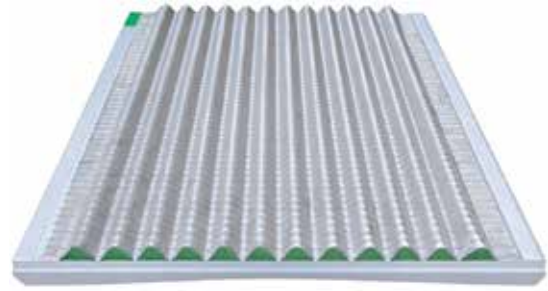
Drilled Solids Removal Efficiency

ASTM sieve analysis of the feed and screen underflow slurry was performed on both shakers resulting in a cumulative removal rate of 74.4% with the Derrick V300 DX-A140 screens as opposed to M-I SWACO's XR-200 removal rate of 65.5% (based on solids larger than 63 microns).

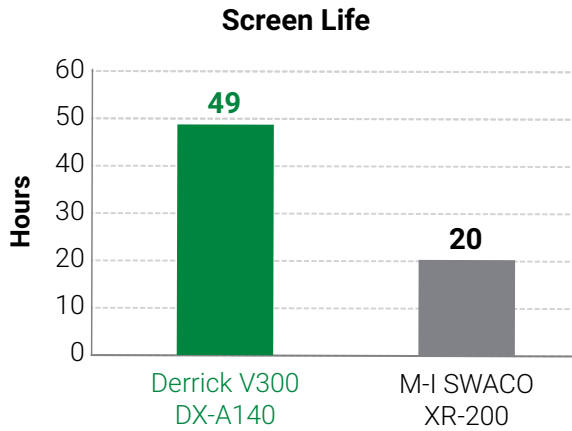


Screen Durability

The XR-200 (API 120) experienced screen damage on two panels during the first 20 hours of testing. Derrick's V300 screens lasted for the duration of the test—a total of 49 hours—with no visible damage.



V300 PMD®



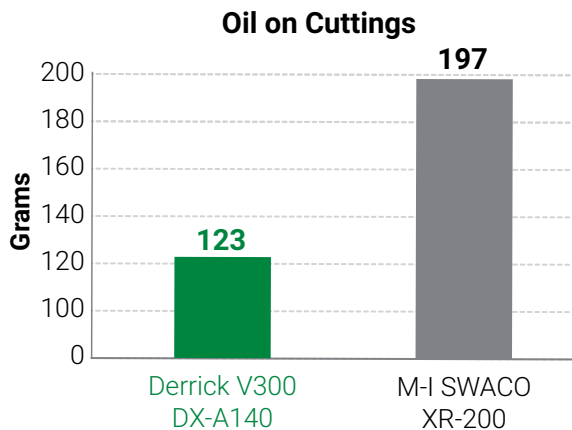
Conclusion

The Derrick V300 replacement series screen removed more solids and increased screen life while maintaining less oil on cuttings.

145% Increase in Screen Life

Oil on Cuttings

Oil on cuttings analysis resulted in a lower value on the Derrick V300 screens (123 gm/kg) when compared to the M-I SWACO XR-200 screens of 197 gms/kg.



37.56% Reduction of Oil on Cuttings

For more information, please contact your local Derrick sales representative.

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