

Propane Pipeline Corrosion Black Powder Removal

Transmontaigne Product Services Inc., Texas, 2016



Problem:

Robert Garcia, Staff Engineer for Transmontaigne was finding a high level of Black Powder in their 6" pipeline with a flow rate of 100BPD. This Black Powder corrodes the pipeline wall, wearing on valves, meters and pumps causing failure and degrading the propane quality. The traditional depth media filtration was proving inefficient and expensive.

Solution:

BPS Recommended installing a Black Powder Magnetic Separator before the pump station to remove the Black Powder without flow restriction, removing the ferrous and non-ferrous Black Powder contamination to submicron size.



Results:

Operating at 100BPD, a large amount of contamination was trapped on the Magnetic Separators. Robert Garcia is pleased with the results and looking for other areas where this magnetic technology applies to the pipeline.

Recommendation:

Install BPS Separators in critical component locations such as pump and metering stations to remove Black Powder and protect the pipeline at all stages.