CASE STUDY: OFFSHORE CONGO

FORSA PAO83037 paraffin inhibitor cut required dosage in half, saved $500,000 USD and reduced paraffin deposition in subsea pipeline

CHALLENGES

- Highly paraffinic oil was being transported through a subsea pipeline
- Competitor product at 1,000 ppm was not meeting pore point and paraffin deposition key performance indicators (KPIs) to avoid transportation penalty costs (12˚C or less pore point, and less than 200 kg paraffin in weekly pig runs)

SOLUTION

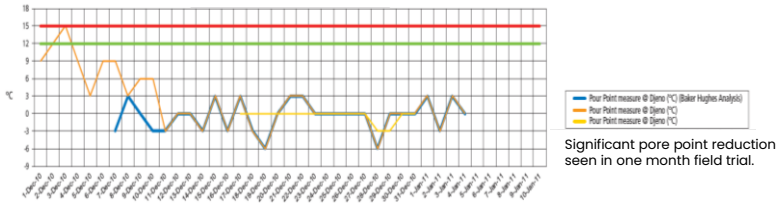
- FORSA™ PAO83037 paraffin inhibitor was injected upstream of the pipeline, and recommended for its:
  - Superior performance at 500 ppm in laboratory pour point and paraffin deposition testing

RESULTS

- Cut paraffin injection in half, saving $500,000 USD in product dosage
- Reduced pour point average to 0˚F
- Reduced paraffin an average of 10 kg in weekly pig runs
- Achieved KPIs for pore point and paraffin inhibition eliminating pipeline transportation penalty costs

Treatment	Period	Product	Supplier	PIG launched	PIG received	Qty of Paraffin
Paraffin inhibitor	03 to 30 Nov. 2010	CH-6736	CHIMEC	10-Dec. 2010	11-Dec. 2010	200 kg
Paraffin inhibitor	01 Dec. 2010 (ongoing)	PA083037	Baker Hughes	28-Dec. 2010	29-Dec. 2010	10 kg
Paraffin inhibitor	01 Jan. 2010 (ongoing)	PA083037	Baker Hughes	27-Jan. 2011	28-Jan. 2011	5 kg
Paraffin inhibitor	01 Jan. 2010 (ongoing)	PA083037	Baker Hughes	28-Feb. 2011	1-Mar. 2011	5 kg

Pigging results show weekly paraffin reduction during and after one month field trial.



Significant pore point reduction seen in one month field trial.

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