

Simsite Case History

Customer: BP Oil (UK) Limited
Application: End Suction Pump Impeller
Pumped Medium: LPG with an SG of 0.47 @ 108 degF.

Problem: Over a period of approximately three to four months the system becomes contaminated with Ammonia chlorides that clog up the impeller and pump and reduce efficiency. To clear the system it is flushed through with "boiler feed water" at 160 degF. The combination of chemicals and temperatures attacks the metallic components.



This is a 13% Chrome Impeller after only 12 weeks in service.



This is a Duplex Impeller after only 16 weeks in service.

Solution: To fit a reverse engineered Simsite SMS375 Impeller.



These photo's show the new Simsite Impeller before installation and again after 44 weeks in service, showing only slight discoloration. Cost savings in the first year in excess of £12,000 on replacement impellers alone. Customer is so impressed with the performance of the Simsite that they have fitted another impeller to the standby pump and is looking at alternative applications where Simsite can increase the life of their equipment and cut costs.