

**CASE HISTORY**

# US oil refinery reduces LVGO heat exchanger cleaning timelines from 5 days to 12-hours utilizing FQE® Solvent-H

**Results Achieved**

Exchanger cleaning timelines reduced from 5 days to 12-hours

Reduced mechanical cleaning costs by over 90%

Recovered at least 100,000 bbl. of production

**Chemicals Utilized****FQE** Solvent-H

An oil refinery in Wyoming running heavy Canadian crude utilized FQE Solvent-H to circulate and decontaminate fouled exchangers and saved over 4 days of outage time.

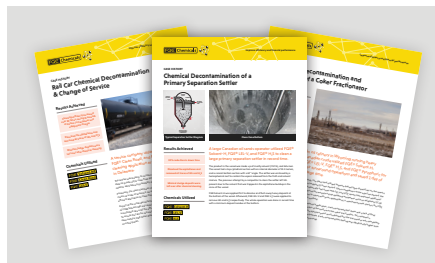
The heat exchangers were typically cleaned of solid hydrocarbon sludges by removing the bundle and performing mechanical high-pressure water blasting. The process traditionally took 5 days to complete due to the heavy fouling associated with Canadian crude.

The scope consisted of several banks of LVGO service heat exchangers. The banks were a combination of shell and tube as well as plate exchangers.

Using our FQE Solvent-H chemistry in three separate circulation loops, the exchangers were flushed within a 12-hour period and saved over 4 days of outage time. The exchangers were brought back online at full throughput making this a successful maintenance program. Based on the plant operating capacity, this would have recovered at least 100,000 bbl. of production.



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