

vertrouwelijk
confidential

strikt vertrouwelijk
strictly confidential*

Zeeland Refinery N.V.

P.O. Box 210

4380 AE Vlissingen

Luxemburgweg 1

4455 TM Nieuwdorp

T +31 (0) 113 61 90 00

F +31 (0) 113 61 36 44

I www.zeelandrefinery.nl



July 15, 2013

Crude Tank Cleaning Reference Letter

According to the Contract ZR-C-2012 ARKOIL Technologies Nederland performed cleaning of the crude tank 030M103 (storage capacity - 80,000 m³, diameter – 72,5 m) at the tank farm of Zeeland Refinery N.V., Nieuwdorp, The Netherlands.

According to the initial measurements volume of the accumulated oil sludge was 2,000 m³. Upon application of ARKOIL's Non-man Entry Crude Tank Cleaning System the accumulated sludge was separated into three fractions: hydrocarbons, water and solid sediments. Hydrocarbons, free from any sediments or impurities, were successfully recovered by ARKOIL's engineers and were further processed by the Refinery. This recovery allowed to meet the main goal of the Contract and more than 95% of oil was recovered. Water was drained and treated internally. Sediments were removed from the tank and brought to place specified by the Customer. The tank was prepared to hot works.

ARKOIL System allowed no HC emission and accepted by Zeeland Refinery as explosion proof and meeting Safety, Health and Environmental standards.

Zeeland Refinery N.V.


Eric van den Berg
Purchaser Maintenance & Contracting
Eric.van-den-berg@zrefinery.nl

