

## Reprocessing or reconditioning contaminated cargo

As part of a broad range of transshipment services Transoil has access to a number of sophisticated separation technologies for reprocessing. We deliver filtration services at storage sites as well as on board of vessels by setting up our portable reprocessing equipment. It sometimes may occur that you face off-spec cargo of petroleum or other petrochemical products despite the strict operational procedures practised by transportation, production and storage companies. Although 'downgrading' is an option, the costs could be substantial. Distillation is another option but may not be feasible due to significant costs for transportation, storage and refining losses. Technical knowledge and qualified staff combined with portable equipment provide a highly commercial solution.

### Equipment

Transoil understands the sense of urgency. To serve you efficiently we always keep a full range of equipment ready to rent for short temporary jobs. Also we keep a sufficient amount of consumables in stock. Our project engineers are able to train your operators on- and offshore (they have qualifications to go offshore) how to handle our equipment or they can do the start-up phase. We also rent equipment designed to your specifications. Please contact us if you don't see any specific equipment listed below.

### Available units

- Duplex filter units cartridges and/or baskets
- Single vessel units cartridges or baskets
- VPL filters (DE filtration), including mix tank and pumps
- Filter presses
- Slurry tank for FP
- Centrifugal pump
- Automated self-cleaning filters

### Coalescent filtration

The Transoil high performance Nafta Coalescer is designed to remove water from either light or heavy nafta. Chemflo's proprietary Nylon 66 coalescing media is specifically designed for nafta's, aromatics and hydrocarbon solvents. Because nafta's contain higher aromatics ratios and may be treated with caustics, common construction materials used in coalescing elements often are not compatible with nafta.

### Performance

- Removes aerosol sized droplets and particulate down to 0,3 ppm
- Water removal efficiency 99% up to 99,9%
- 100% Removal of solids and liquids larger than 4 ppm or 18 ppm

### Applications

- Light straight-run nafta
- Heavy straight-run nafta
- Condensate, reformate
- Light catalytic cracked nafta (LCN)
- Production of gasoline, jet, fuel, ethylene, propylene

### Solids filtration

Our filtration techniques and equipment are especially suited to remove solids from contaminated petroleum cargoes. Transoil has a wide experience in upgrading in cases of bacterial contamination of bunkers, clarifying 'hazy' gasoil from waxes due to high cloud points etc. Our units are also used for decolorising chemical products and water dehydration.

### Performance

- Fully thermal, welded, no glue or adhesives
- All TH pleated cartridges are rated Beta5000 (efficiency 99,98%)



- Color code micron rating for easy recognition
- Three layers: glass fibre between polyester filter layers for maximum removal performance, strength and stability
- Especially suited for the offshore industry

### Applications

- Diesel
- Fuel oil
- Solvents

### Quality and safety

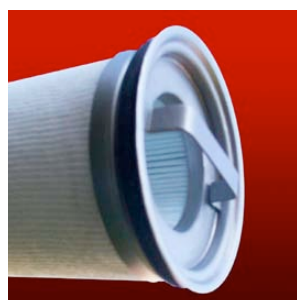
All our staff considers health, safety and environmental protection to be highest priorities. The privilege of conducting business with our customers demands excellence in the safe execution of all tasks. We express our safety through our SCC certificate.

We ensure the health and safety of our employees and third parties through a safety management system. The targets are clear: zero injuries, zero negative impacts to the environment and zero damage to equipment. We comply with all appropriate laws, regulations and company policies and procedures as well as we embrace accepted industry guidelines.

We select and engage contractors whose commitment to health and safety can be verified through a safety management system. We monitor and openly report on our performance and seek continuous improvement.

Additionally Transoil is ISO9001 certified by DNV. This indicates that Transoil

- has a quality management system in place
- has verifiable processes in place to seek out and address nonconformities
- seeks for continuous improvement



### About Transoil

Transoil is an independent marine consultancy company providing a broad range of transshipment services such as cargo surveying, superintendency services, loss control and STS services. Based in The Netherlands we operate world-wide for specialized assignments delivering the highest standards of integrity and expertise. We show a strong focus on value added services and operational efficiency. As a result our solutions benefit our clients directly with a proven return on investment.

**Transoil, experts in action! !**

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