# Pall Rentals, Analysis and Filter Cleaning Services



**PIRENTALSEN** 

# Increase your Productivity, Reduce your Downtime, Remain Profitable

While today's energy industry focuses on productivity improvements, the contamination of process fluids has emerged as a broad potential contributor. Whether feed fluids, solvent used in the processes, intermediate products, or final products, fluid contamination costs the industry billions of dollars every day.

Pall Services offers you smart ways to implement solutions without delay and with the full support of local experts, without the CAPEX burden of purchase

#### **Our services include:**

- · Contamination mapping & monitoring
- · Rental equipment for fluid depollution
- Filter maintenance and equipment upgrades
- · Metal elements cleaning
- Rotating machines services, ie lube oil depollution, cleanliness assessment and monitoring

#### **Feed Stocks**

- Diagnosis
- Rental
  - Naphtha
  - HVGo
  - Brine
  - Fuel Gas

## **Solvent Depollution**

- Mapping
- Rental
- Monitoring
  - Amines
  - Benfield
  - Glycol

# **Heat Transfer**

- Diagnosis
- Rental
  - Ammonia
  - HTF synthetic oil
  - Water

# **Final Products**

- Diagnosis
- Depollution
- Monitoring
  - LPG
  - Diesel
  - Jet Al
  - Ammonia
  - Lube oils
  - H2O2
  - NaCIO

# Our scope of service includes:

- Emergency, short-term or semi-permanent rental
- Mission ready filters/separators rental units available
- State of the art filtration and separation technologies
- Turn-key depollution solutions available for turn-around or shutdown
- Pilot scale demonstration of technologies before full application

#### The Value of Pall Services

#### Fluid Treatment

Process fluid contamination in solid and liquid forms

can impact your plant production, increase your operating and maintenance costs, and reduce your plant's productivity. Through the application of Pall's



our particulate and coalescer rental filter skid solutions can potentially save your business hundreds of

thousands of dollars.



It requires no CAPEX investment and is based on supply of mission ready resources available locally, using the most appropriate filtration

technology available to provide an immediate and sustainable solution for your processes.

### **Filter Cleaning**

Industry leaders rely on porous metal filter elements for critical chemical, petrochemical, and polymer process performance and environmental protection. Filter media include cleanable metal fiber, powder, mesh, and composite technologies which, with proper cleaning, can be regenerated to help lower overall costs with yearly savings of more than 30% of the annual elements' costs.

- Recover your unit's initial operating performance
- Avoid unexpected outages
- Extend the useful life of aging elements
- Avoid unscheduled capital expenditure

#### **Purifier Hire**

Water in hydraulic, lubrication, power transmission, and insulating fluids adversely affects fluid performance. It threatens overall system reliability and can lead to compromised production and costly downtime.



Pall's rental purifiers go a long way to eliminating these concerns, improve equipment reliability, and overall operating costs. Choose from rental packages to hire,

commissioning of new purifiers, or maintaining and repairing older ones.

- · Remove the risk of corrosion or fouling related breakdowns
- Reduce unexpected maintenance costs by protecting critical system components
- Extend oil life for less environmental impact



# Diagnostics and fluid assessment

Pall Services provide both the expertise and the equipment to diagnose process problems, recommend

the appropriate filtration or process improvements and support on-going monitoring to measure success.

Particulate monitors, water sensors, fluid and component cleanliness analysis programs are all available for short or long-term operation, whatever your business needs to get back on track to meet and exceed your production targets.



#### Our current mission ready fleet, ready for deployment throughout Europe, Middle East and Africa, includes:

Application	Description	No. of Filter Elements	Nominal Filter Length (in)	Orientation	Pressure Rating (bar)	Rated Flow (m3/hr)
Particulate Filtration (Process and Final Product)	Ultipleat <sup>®</sup> High Flow Filter Housing	1	20	Vertical	10	22
		1	40	Vertical	10	90
		7	40	Horizontal	34	90
		1	40	Vertical	16	90
		1	40	Horizontal	16	 55
		7	40	Horizontal	10	55
		1	40	Vertical	10	55
		4	40	Horizontal	13	90
		4	60	Horizontal	34	80
		4	60	Horizontal	34	80
		7	60	Horizontal	34	80
		7	60	Horizontal	14	80
		7	60	Horizontal	34	80
		7	80	Horizontal	58	350
		7	80	Horizontal	28	350
		19	80	Horizontal	34	2,158
	Veladisc™ Filter Housing	4	16" dia modules	Vertical	34	10
	Coreless Profile®	9	40	Horizontal	34	350
	MCC Series Filters	30	40	Horizontal	34	200
	Ultipleat Diesel Plus	1	40	Vertical	13	11.5
Liquid / Liquid Coalescers (Process and Final Product)		1	40	Horizontal	13	22
		1	40	Horizontal	13	50
		5	40	Horizontal	50	90
		7	40	Horizontal	34	126
		15	40	Horizontal	40	270
		31	40	Horizontal	23	550
		37	40	Horizontal	34	660
Oil Purifiers	HNP023 Water removal	N/A	N/A	Mobile	Offline	20 l/min
	HNP076 Water Removal	N/A	N/A	Mobile	Offline	70 l/min
	Varnish Removal Filter (Water cooled)	N/A	N/A	Skid	Offline	42 l/min
	Varnish Removal Filter X-Proof (Air cooled)	N/A	N/A	Skid	Offline	42 l/min
	Oil Flushing Rig	N/A	N/A	Mobile	Offline	250 l/min
	Morgoil Treatment Purifier	N/A	N/A	Mobile	Offline	125 l/min
Monitoring	PCM500 Fluid Cleanliness Monitor	N/A	N/A	Mobile	Up to 315 bar	N/A
	WS19 Hand Held Water Sensor	N/A	N/A	Mobile	Offline	N/A

List for directional guidance only. For full specification of available rental products please contact Pall Please enquire further for full equipment specification. In Europe, contact us on SIS\_FTAP@pall.com or in Middle East and Africa mea\_services@europe.pall.com or visit www.pall.com/en/oil-gas/pro-services.html



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 $\label{lem:if-applicable} \textit{IF-APPLICABLE} \ \ \text{Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.}$ 

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