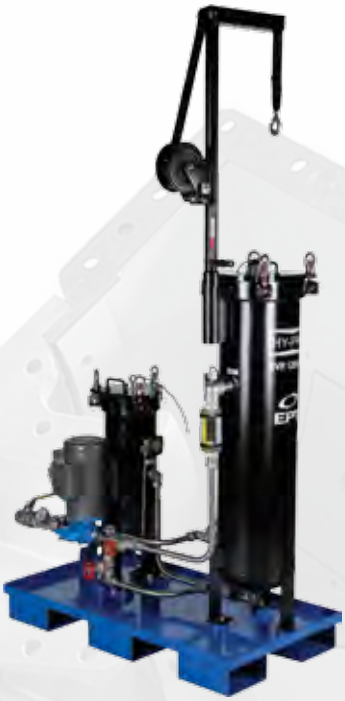
HY-PRO

FILTRATION

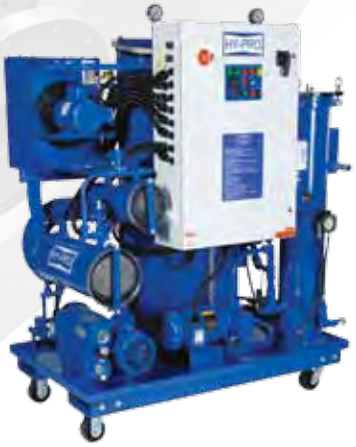
DFE Filter Element Upgrades

Turbine Oil Coalescence



Varnish Removal & Prevention

Contamination Solutions for Power Generation



Vacuum Dehydration

www.hyprofiltration.com

Ph: 317.849.3535

Fluid Contamination Under Control With Hy-Pro Filtration's Total System Cleanliness Approach

Hy-Pro DFE Rated Filter Elements & Fluid Contamination Equipment

Turbine Oil Conditioner
Coalesce & Particulate
Element Upgrades

Non-Spark Discharge Element
Upgrades Prevent Fluid
Degradation & Extend Additive Life

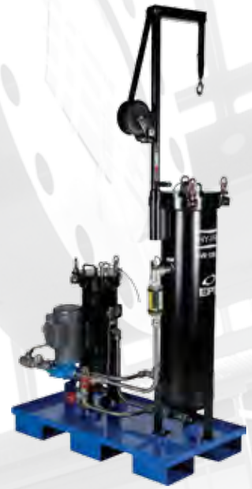
DFE Rated Filter Elements
Upgrades for All Filter OEMs

Hydraulic & Lube Filter Element Upgrades

Vacuum Dehydrator- Removes Free &
Dissolved Water, Low ISO Codes

COT- Turbine Oil Coalesce Skid
Rapidly Controls Water & Particulate

Off-Line Lube Oil Conditioning Skids



SVR- Soluble Varnish
Removal System Stops
Fail to Start and Unit Trips

Innovative Products Support & Solutions for Combustion & Steam Turbines.

Hydro, Nuclear, HRSG, Natural Gas, Aeroderivative, Coal & Co-Generation Plants

Compressor, Gearbox, Feed Pump & Seal Oil Contamination Solutions

FCL- Filter Cart for
High Viscosity Fluid
Conditioning & Transfer

DFN- Seal Oil & BFP
Filtration Upgrades

FSL Side Loop
Gearbox Filtration

FPL- Filter Panel Ideal
for Compressors

Phosphate Ester Fluid Maintenance (EHC)

Hy-Dry Desiccant
Reservoir Breathers

TMR- Maintains Phosphate Ester
Water Levels Below 300ppm

ICB- Dry Ion Charge Bonding
Acid Scavenging Elements
for Phosphate Ester EHC Systems

ECR- Electrostatic Removes Thermal
Degradation Sub-Micron Particles

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Cleaner Fluid... Longer Component & Fluid Life... More Uptime!

Roller Contact Bearing

Current ISO Code	Target ISO Code	Target ISO Code	Target ISO Code	Target ISO Code
	2 x Life	3 x Life	4 x Life	5 x Life
26/24/21	22/20/17	20/18/15	19/17/14	17/15/12
25/23/20	21/19/16	19/17/14	17/15/12	16/14/11
22/22/19	20/18/15	16/16/13	16/14/11	15/13/10
23/21/18	19/17/14	17/15/12	15/13/10	14/12/9
22/20/17	18/16/13	16/14/11	15/13/10	13/11/8
21/19/16	17/15/12	15/13/10	13/11/8	-
20/18/15	16/14/11	14/12/9	-	-
19/17/14	15/13/10	13/11/8	-	-
18/16/13	14/12/9	-	-	-
17/15/12	13/11/8	-	-	-
16/14/11	13/11/8	-	-	-
15/13/10	13/11/8	-	-	-
14/12/9	13/11/8	-	-	-

Hydraulic Component

Current ISO Code	Target ISO Code	Target ISO Code	Target ISO Code	Target ISO Code
	2 x Life	3 x Life	4 x Life	5 x Life
26/24/21	23/21/18	22/20/17	21/19/16	21/19/15
25/23/20	22/20/17	21/19/16	20/18/15	19/17/14
25/22/19	21/19/16	20/18/15	19/17/14	18/16/13
23/21/18	20/18/15	19/17/14	18/16/13	17/15/12
22/20/17	19/17/14	18/16/13	17/15/12	16/14/11
21/19/16	18/16/13	17/15/12	16/14/11	15/13/10
20/18/15	17/15/12	16/14/11	15/13/10	14/12/9
19/17/14	16/14/11	15/13/10	14/12/9	14/12/8
18/16/13	15/13/10	14/12/9	13/11/8	-
17/15/12	14/12/9	13/11/8	-	-
16/14/11	13/11/8	-	-	-
15/13/10	13/11/8	-	-	-
14/12/9	13/11/8	-	-	-

Succeed with a Total Systems Cleanliness Approach

Developing a Total System Cleanliness approach to control contamination and care for fluids from arrival to disposal will ultimately result in more reliable plant operation and save money. Several steps to achieve Total Systems Cleanliness include: evaluate and survey all hydraulic and lubrication systems, establish a baseline and target fluid cleanliness for each system, filter all new fluids upon arrival and during transfer, seal all reservoirs and bulk tanks, install high quality particulate and desiccant breathers, enhance air and liquid filtration on existing systems, wherever suitable use portable or permanent off-line filtration to enhance existing filtration, improve bulk oil storage and handling during transfer, remove water and make a commitment to fluid cleanliness.

The visible cost of proper contamination control and Total Systems Cleanliness is less than 3% of the total cost of contamination when not kept under control. Keep your head above the surface and avoid the resource draining costs associated with fluid contamination issues including:

- Down Time and Lost Production
- Component Repair / Replacement
- Reduced Useful Fluid Life
- Wasted Materials and Supplies
- Root Cause Analysis Meetings
- Maintenance Labor Costs
- Unreliable Machine Performance
- Wasted Time and Energy

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