

fluenttm

the ultimate filtration system

**EFFECTIVE FOR
IMPROVING PRODUCTIVITY
BY REDUCING DOWNTIME
& MAINTENANCE COSTS**



**Maintains oil cleanliness level below (NAS 4, ISO code 15/13/10)
Maintains moisture level below 200 ppm
Higher dirt holding capacity media
For mineral oil, glycol-water, phosphate, ester etc.**

www.vatsfilters.com

Features & Benefits

High Quality Filtration:

The only way to come out from the vicious circle is to maintain oil at highest cleanliness level. Vats invite you to get an experience of NAS 4 or better oil so as you will come out from vicious circle and enjoy the fruits like No Breakdowns, No Maintenance, No component Replacement, No Oil replacement, and many more. Our Experience is that, effectively installed "Fluent" reduces the down time and maintenance cost by 80%.

Moisture Removal:

Higher Moisture content in oil is responsible for malfunction of valves, corrosion, change in chemical property and viscosity of oil, etc. The moisture in oil is noticed only after Breakdown, Loss of Product Quality, or when electrostatic oil cleaning machine gets tripped or emulsion gets formed. It is too late to notice the moisture content & remove it by vacuum dehydration (LVDH). "Fluent" removes excess moisture on line and maintains to 200 ppm well below the required limits and thus never allows to built up the moisture level so as to enjoy maintenance free quality production.

Very High Holding Capacity:

Along with Quality cost of filtration is also an important factor. "Fluent" is installed with "Lucida", elements from Vats as a result of 15 years R&D for the graded density filter elements. With latest technology of Graded density and rigid filters and optimized cost of elements, makes Fluent most Efficient Filtration solution for achieving desired NAS level.

Universal Media for Various Fluids:

Vats "Lucida" is equally suitable for all varieties of hydraulic fluids i.e. mineral oil, water glycol, Synthetic Oil, Fire retired eastor based oils, etc.

Wide Viscosity Range:

From 1 cst to 1000 cst. Many special purpose oils can be well filtered.

Fluent Model No.	Dimensions	Flow Rate LPM	Hydraulic Oil Tank Capacity	Shipping Weight
OC03		3	750	
OC06		6	1500	
OC10		10	2500	
OC20		20	5000	
OC40		40	10000	

Note: Expected life of filter for maintaining oil cleanliness is approximately one year

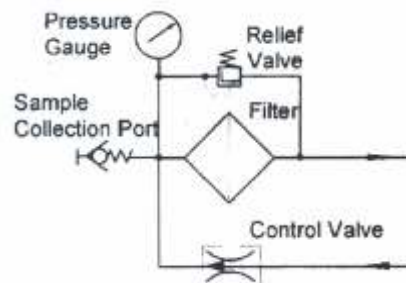
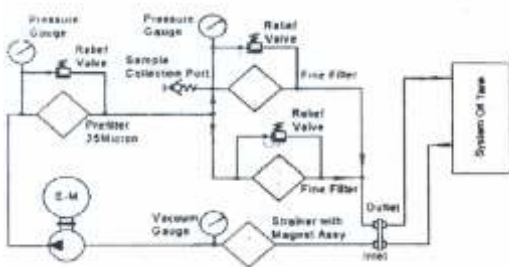
Types of oil effectively handled by "Fluent"

- Hydraulic Oil
- Gear Oil
- Lubricating Oil
- Turbine Oil

Applications:

- Industrial Hydraulic
- Mobile Hydraulic
- Marine Hydraulic
- Turbine
- Offshore
- Injection Moulding
- Many Others

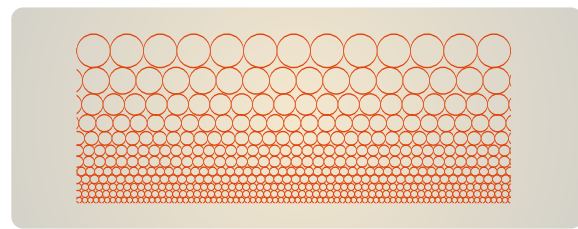
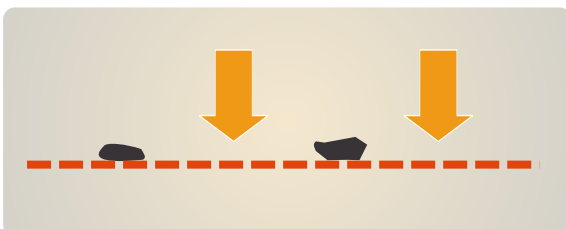
Installations



Differentiation

Surface Filter (Glass Fiber Pleated Media)
Very low dirt holding capacity

Vats "Lucida" Graded Density media
Very High Dirt Holding Capacity

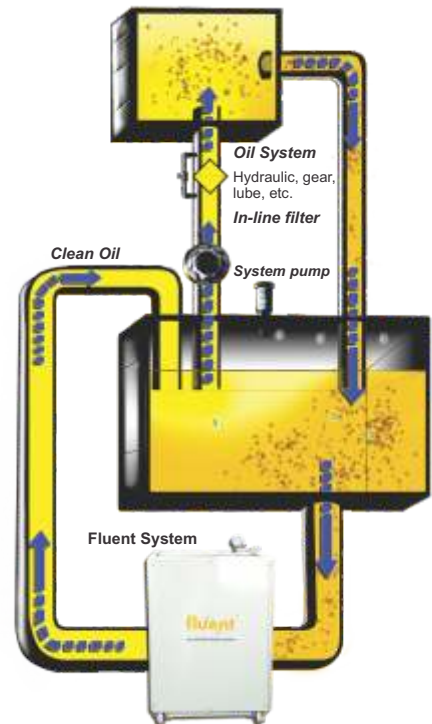
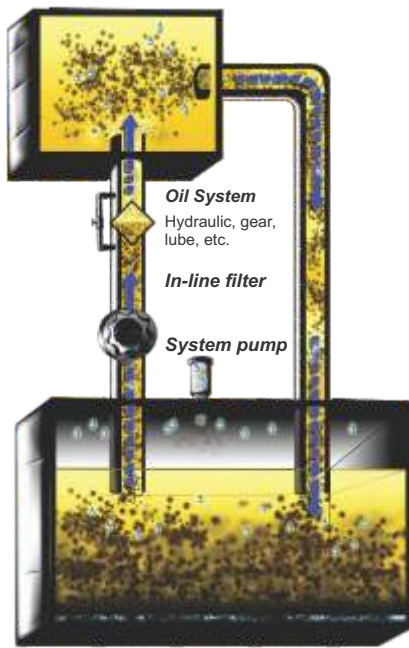


Comparitive Media Performance



Media Properties	Glass Fiber Cartridge	Electrostatic	Paper Wound	Centrifuge	Fluent with "Lucida" media
Cleanliness	Excellent < NAS 4	NAS 6 / 7	NAS 7 / 8	NAS 10	Excellent < NAS 4
Water Removal	Not regular feature	Can't work with moisture	Possible by consuming media	Possible by separation	Maintains < 200 ppm
Viscosity Range	0-600 cst	0-200 cst	0-100 cst	0-100 cst	0-1000 cst
Mineral Oil	Yes	Yes	Yes	Yes	Yes
Glycol-Water, phosphate ester	Possible with same element	Does not work	Can't use same element	Possible	Yes with same element
Dirt Holding Capacity	Very Low	Moderate	Moderate	NA	Very High
Operating Cost	Very High	Moderate	Moderate	High	Very Low
Capital Cost	Low	Moderate	Moderate	High	Moderate
Overall Performance	Good	Average	Average	Average	Excellent

Effectiveness of Clean Oil



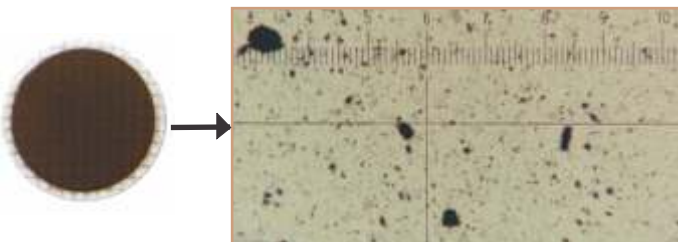
NAS 10 Oil 2500 particles / ml
 NAS 12 Oil 10,000 particles / ml
 Addition of 7500 particles
 Increases Damage
 Increases Filter Chocking
 Reduces Life of Oil

NAS 4 Oil 40 particles / ml
 NAS 6 Oil 1600 particles / ml
 Addition of 120 particles
 Reduces Damage
 Reduces Filter Chocking
 Increases Life of Oil

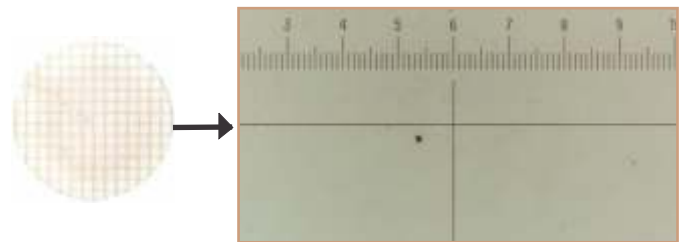
“Fluent” reduces the downtime & maintenance cost by more than 80%

Patch Test Results

>NAS 12 Before Filtration
 ISO 22/19/16



NAS 4 After Filtration
 ISO 15/13/10



Standards for testing

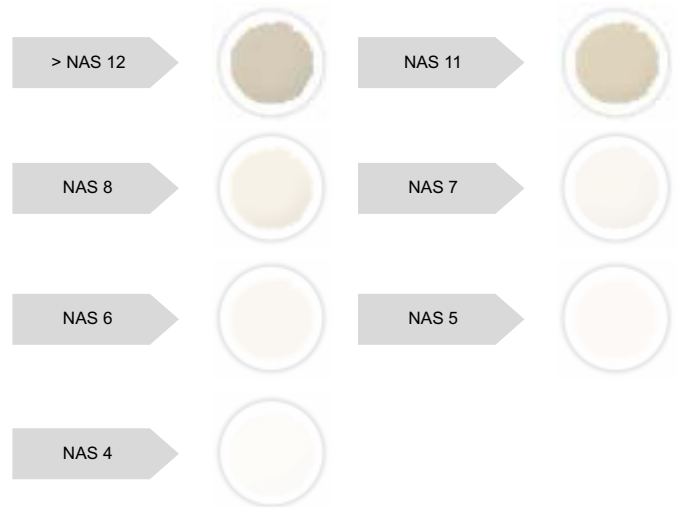
ISO 4406 -1987/1999				Particles in 100ml
>28				256000000
28				128000000
27				64000000
26				32000000
25				16000000
24				8000000
23				4000000
22				2000000
21				1000000
20				500000
19				250000
18				128000
17				64000
16				32000
15				16000
14				8000
13				4000
12				2000
11				1000
10				500
9				250
8				130
7				64
6				32
5				16
4				8
3				4
2				2
1				1
0				0.5
	4 μ	6 μ	14 μ	ISO 4406:1999
Size	2 μ	5 μ	15 μ	ISO 4406:1987
ISO	22	19	16	
Equivalent NAS	11	11	11	
ISO	15	13	10	
Equivalent NAS	4	4	4	

NAS 1638-01/1964						
	particle in 100 ml					
	2-5	5-15	15-25	25-50	50-100	>100
4	20000	4000	712	126	22	4
5	40000	8000	1425	253	45	8
6	80000	16000	2850	506	90	16
7	160000	32000	5700	1012	180	32
8	320000	64000	11400	2025	360	64
9	640000	128000	22800	4050	720	128
10	1280000	256000	45600	8100	1440	256
11	2560000	512000	91000	16200	2880	512
12	5120000	1024000	182000	32400	5760	1024

Patch Test Kit



Patch Test -



Basis - 10ml of oil + 20ml solvent on 25mm 0.8m filter paper

Particle size counter (PC-01)



Vats Filtration Technologies Pvt. Ltd.

Business Associates

Manufactured By



An ISO 9001:2008 Company

VATS FILTRATION TECHNOLOGIES PVT. LTD.

Initiatives & Solutions for Industries, Globally

(Formerly Known As Vats Micro Fine Filters Pvt. Ltd.)
(Parent company of M/s Ojashree Equipments Pvt. Ltd.)

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