



# SS FILTERS PVT. LTD.

AN ISO 9001:2015 COMPANY

## SSF Lubricant Filter

- **SS Filters Pvt Ltd** is a technology based filter company which uses its vast experience and core knowledge to upgrade and develop filters which are not only efficient but economical too.
- Manufacturer & exporter.
- MSME registered, SSI Unit & ISO 9001:2015 certified.
- Since 20 years in This Market.

### General Lube market

- Demand for oil & gas increased due to 100% FDI in many sectors.
- Indian lubricant market has grown at 18.6% in last 6 years.
- India - 3rd largest Lubricant Giant with market size 2.5 billion litres after America & China.
- Industrial Lubricant - more than 54% of total market share.

### Lubricant contamination

- Particle contamination - No 1 cause
- 82% of component wear is particle induced - as stated by STLE & NRCC
- A sample of lubricant may appear to be clear but actually contains many microscopic particles like , dust, sand, metal particles etc.

### Benefits of clean oil

- Keeps Hydraulic system clean and particulate free
- Reduce downtime of production and increase efficiency of equipment.
- Usage of NAS Oil increases Lubricant Life.
- Increases the life of gears, bearings etc.

Final ⇒	*/20/17	*/19/16	*/18/15	*/17/14	*/16/13	*/15/12	*/14/11
Initial ↓							
*/26/23	X 2.5	X 3	X 3.5	X 4	X 5	X 6.5	X 7
*/24/21	X 1.5	X 2	X 2.5	X 3	X 4	X 5	X 6
*/22/19	X 1.1	X 1.3	X 1.7	X 2	X 2.5	X 3	X 3.5
*/20/17	--	X 1.05	X 1.3	X 1.4	X 1.7	X 2	X 2.5
*/19/16	--	--	X 1.1	X 1.3	X 1.5	X 1.7	X 2

Potential useful life extension of hydraulics from the initial to the final cleanliness codes.

### Examples

- By using NAS value oil in compressor reduces the consumption of rotary screw compressors by 3% and extends bearing life by factor of 4.
- Reducing particle contamination in engine oil improves fuel economy by 2 to 3% in buses and automobiles.
- In a lab study of bearing, the microscopic wear debris initiated damage during the first 30 minutes on run-in and decreased service life.

(All from machinery lubrication)

# ISO TABLE

## ISO Cleanliness:

SSF will provide ISO cleanliness level of 16/14/11 (NAS 5)

Particle Size (μ)	NAS Grade (n° of particles in 100ml)											
	1	2	3	4	5	6	7	8	9	10	11	12
5-15	500	1,000	2,000	4,000	8,000	16,000	32,000	64,000	128,000	256,000	512,000	1,024,000
15-25	89	178	356	712	1,425	2,850	5,700	11,400	22,800	45,600	91,000	182,400
25-50	16	32	63	126	253	506	1,012	2,025	4,050	8,100	16,200	32,400
50-100	3	6	11	22	45	90	180	360	720	1,440	2,880	5,760
>100	1	1	2	4	8	16	32	64	128	256	512	1,024

With SSF Filtration
New Oil
Old Oil

More Than (p/ml)	Up To and Including (p/ml)	ISO Code
80,000	160,000	24
40,000	80,000	23
20,000	40,000	22
10,000	20,000	21
5,000	10,000	20
2,500	5,000	19
1,300	2,500	18
640	1,300	17
320	640	16
160	320	15
80	160	14
40	80	13
20	40	12
10	20	11
5	10	10
2.5	5	9
1.3	2.5	8

ISO 4406- 16/14/11

First number: Particles greater than 4 microns (16)

Second number: Particles greater than 6 microns (14)

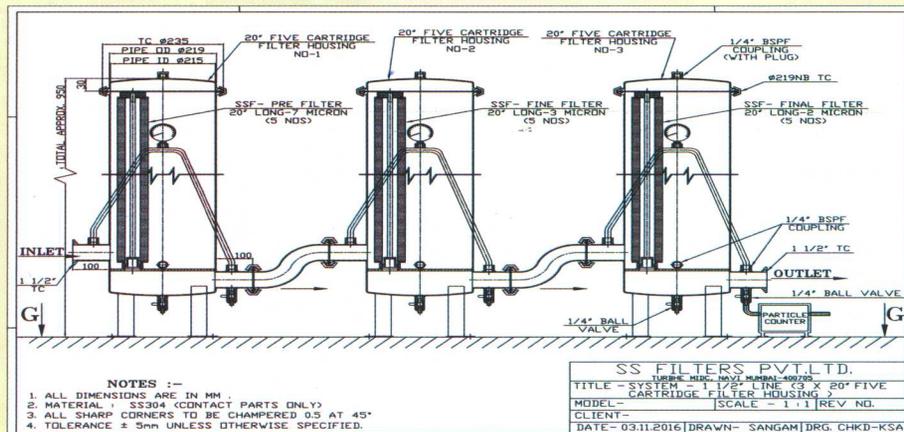
Third number: Particles greater than 14 microns (11)

Presently, the new lubricants are ISO 22/20/17(NAS 11) which clearly indicates how dirty the Lubricant is!!!

## How NAS oil will help you to get more revenue ?

- Hardly anyone in the market offers NAS value oil
- Market Leader - Industrial, Automobile, Aerospace and Marine.
- Complex systems & reducing tolerances demand Ultraclean oil.
- The market is saturated & nothing new to offer.
- NAS Oil - Complete New Launch

## Where does SSF step in ??



## SSF FILTERS "USP"

- Normal Filtration 5 - 6 times circulation of oil.
- SSF Lubricant Filtration System - Single pass giving NAS value 4 - 5.
- Helps save excess time, energy and money spent .

## Economics

- Current Cost Rs 1.75 - Rs 2.5 per litre.
- **SSF Cost Rs 0.5 to 0.6 per litre\* .**
- Manufacturers & own facility at Turbhe MIDC - Navi Mumbai .
- Become Market Leader - by providing ultraclean hydraulic & turbine oil.
- We are proud to say that Everything Is "Made In India".