

Tips & Tabs is a free news letter for Private circulation to all our esteemed customers and friends in the industries.  
Forward it to all those who are involved in machine maintenance, design and interested in technical matters.



# Hymat Services

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## Are you draining your Oil or Profit?



### *Your Friendly Partner in:*

1. *Oil Filtration with imported special filtration Trolley fitted with Laser Particle Counter & as per International standards like NAS / ISO.*
2. *Oil Testing & Contamination monitoring with Laser Particle Counter.*
3. *System Flushing as per International standards like NAS / ISO.*
4. *High Pressure Testing of Pipes and Tubes.*
5. *Accumulator Charging and Spares of Accumulators.*
6. *Supply of all Kinds of Lubricants( Oil & Grease) for all kinds of applications.*
7. *Single source of all kinds of Hydraulic components like Filters, Filter Elements, Breathers, Gauges, Accumulators, Pumps, Valves, Seals, etc.*
8. *Custom designing & of Power Packs.*
9. *Draftsman Services for all kinds of Engineering Drawings on CAD.*
10. *Consultation & Trouble Shooting of Hydraulic & Lubrication Problems.*

Hydraulic Oil is too expensive to waste.

However most of the Time the owner of the manufacturing unit feels helpless when his technician is advising him to replace the oil. His gut feeling says that he is wasting the Hard Earned money but he has no alternative to know as to how to extend the life of the oil or drain interval. He knows that he can save substantially if he can avoid changing the oil but since he has to run the show he has no choice other than to follow the advice of his semi skilled machine operator or inexperienced engineer.

The adviser is technically not aware of the possibilities of extending the life of the oil and draining interval and / or not worried about the cost of oil replacement and the owner is left with no choice. **For both of them Oil Management is not the focused area.** The situation is like blind following other blind.

How much money one can save by **NOT** replacing the oil? Say 200 ltrs.?

The average cost of one barrel of 210 ltrs. Oil is around Rs. 30000 to Rs. 40000 depending upon the type of the oil used. One can easily save 80 to 85% of this cost just by getting the help of Professional Oil Expert and get it filtered professionally. Professional Oil Expert knows the Oil, your machine, Hydraulic System and components and also the application of Hydraulics.

Saving of Rs. 25000 per barrel is not a small amount. Most of the time each Machines needs 200 to 600 ltrs. of oil. Thus one can easily save Rs. 25000 to Rs. 75000, if oil is not replaced prematurely.

This is for one machine. Imagine how much money can be saved If you have more machines or more quantity of oil to be replaced.

What Professional Oil Filtration Service Provider does?

He filters the oil with proper equipments to measure the oil cleanliness level before and after oil filtration and removes the micron size solid particles from oil **without damaging the oil.** **These micron size particles are responsible for 80 to 85% of Hydraulic System problems. They not only damage the oil but also other Hydraulic system components like valves and pumps.**

**List of few Important Customers:**

1. L&T ( Defense & Aero Space Projects).
  2. Reliance Industries.
  3. Indian Navy.
  4. Premium Drilling ( USA )- Off Shore Platform.
  5. McDermott ( Dubai ) – Off Shore Platform.
  6. NOVA ( Singapore ) – Off Shore Platform.
  7. Godrej Boyce & Co. Ltd. – Aero Space Projects.
  8. Hyderabad Industries.
  9. Hindustan Copper.
  10. Geeta Engineering – Defense Projects.
  11. Yeoman Marine Services.
  12. Time Technoplast.
  13. Elley Electricals.
  14. BARC.
  15. Many Plastic Item Manufacturers (Injection & Blow Molding Machines).
- Over All more than 200 satisfied and repeat Customers.

**Our Best Achievement:  
Filtering Special Oil up to  
NAS – 1  
level for INDIAN NAVY.**

**NAS & ISO** are well known International standards for oil cleanliness level and he cleans the oil as per these standards. These standards indicate the maximum permissible number of micron size particles in 100 ml or 1 ml. of oil. Hydraulic System Manufacturer too recommends the oil cleanliness level as per these standards for best performance of the machine. So **by keeping the oil clean as per the recommendation, you, not only save the life of the oil but also get maximum output from the improved performance of the Hydraulic System.**

**How much remaining useful life of the oil is extended just by getting the oil filtered by the Professional?**

Following results by Noria – a well know USA based international Company exclusively focusing on this has come out with the following results. If you see the table, you will notice that **when you get your oil filtered from NAS – 11 level to NAS – 8 level, the remaining useful life of the oil **DOUBLES !!!****. So there is a direct saving of oil replacement just by getting the oil filtered up to NAS – 8 level and at what cost? Just by spending 10 to 15% of the cost of new oil or may be 25%. But still it is a big saving. Isn't it? Now after knowing these facts which manufacturer will not stop the draining of his hard earned money?

Increase in remaining useful Life of the Hydraulic Oil after filtration (Study results of Noria)								
To →		ISO 20/17	ISO 19/16	ISO 18/15	ISO 17/14	ISO 16/13	ISO 15/12	ISO 14/11
From ↓		NAS -11	NAS -10	NAS -09	NAS -08	NAS -07	NAS -06	NAS -05
ISO 26/23	NAS -12++	5 Times.	7 Times.	9 Times.	>10 Times.	>10 Times.	>10 Times.	>10 Times.
ISO 24/21	NAS -12++	3 Times.	4 Times.	6 Times.	7 Times.	9 Times.	>10 Times.	>10 Times.
ISO 22/19	NAS -12++	1.6 Times. (60% Increase.)	Double.	3 Times.	4 Times.	5 Times.	7 Times.	8 Times.
ISO 20/17	NAS -11		1.3 Times (30% Increase.)	1.6 Times. (60% Increase.)	Double	3 Times.	4 Times.	5 Times.
ISO 19/16	NAS -10			1.3 Times (30% Increase.)	1.6 Times. (60% Increase.)	Double	3 Times.	4 Times.

Next time make sure that your Oil Filtration service provider knows this and insist that he produces the proof of oil cleanliness level before and after filtration. **Do not allow unqualified person to handle your oil filtration. Chances are there that they may damage your oil.** There are scores of such unqualified services providers in the market who have no proper equipment, no knowledge or experience and therefore are ready to offer their services at throw away charges.

**Don't be Penny wise Pound foolish. Pay as per the quality of the services and get best out of your Oil Expert and still save substantially.**

**Now decide – Are you draining your oil or your Profit?**

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