



A Member of the
COLFAX PUMP GROUP

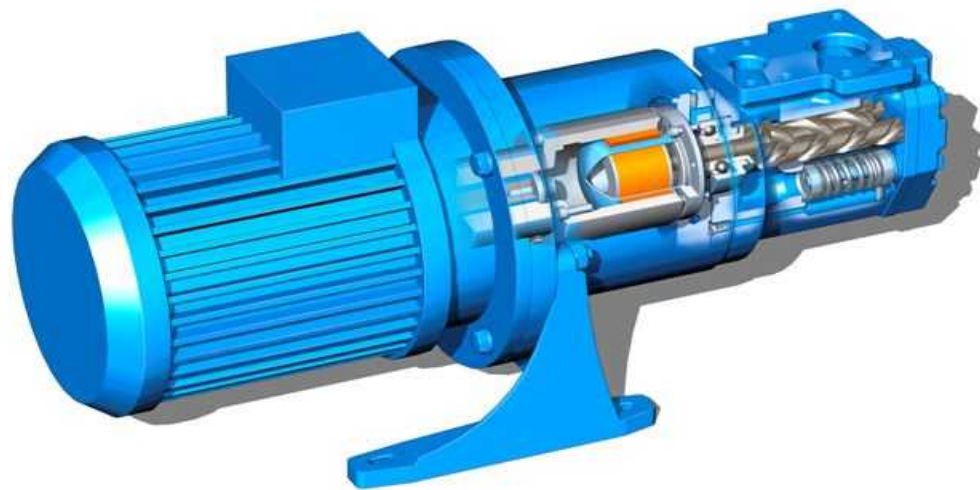
Opti Line Presentation

Opti Line pump

IMO AB Presents New Pump Version

Opti Line

seal-less pumps with magnetic coupling



Opti Line pump

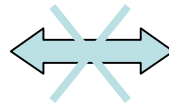
Why an Opti Line?

Very often

- Poor oil quality
- High oil temperature
- High viscosity liquids

Jeopardize the function of a traditional mechanical shaft seal, which results in oil leakage

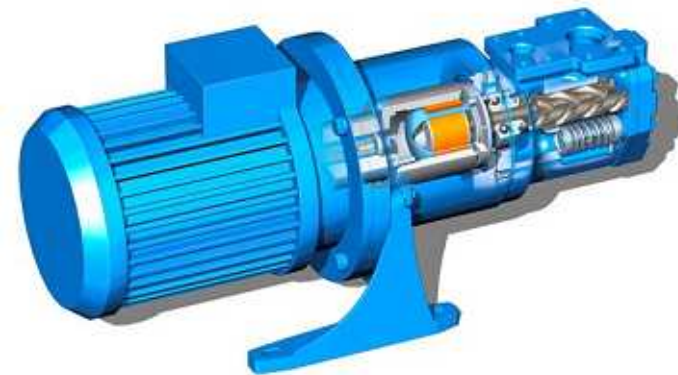
IMO (International Maritime Organization) SOLAS regulation 15 point 2.4 requires no oil spillage or leakage allowed onboard



Opti Line pump

Additional benefits from Opti Line pump

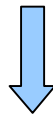
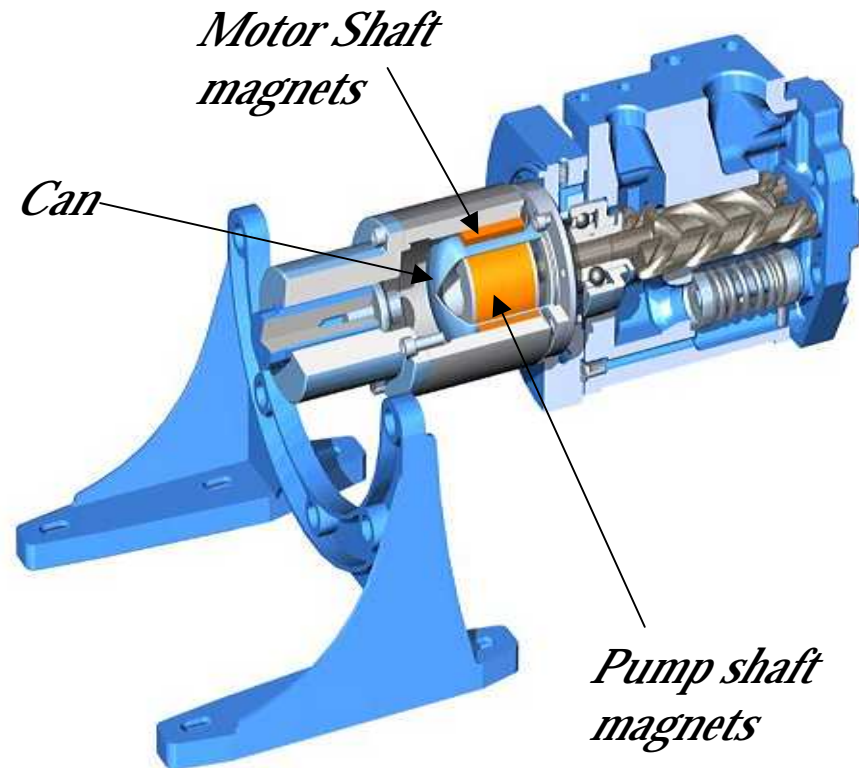
- Leak free pump
- No oil spill
- Maintenance cost
- Spare parts cost
- Enviromental clean
- Labour safety
- Optimal solution for extreme duty



Opti Line pump

How does it work?

Magnetic coupling transfers torque from one shaft to another without any mechanical contact, through magnetic forces by use of permanent magnets



This design gives you leak-free pumps

Opti Line pump

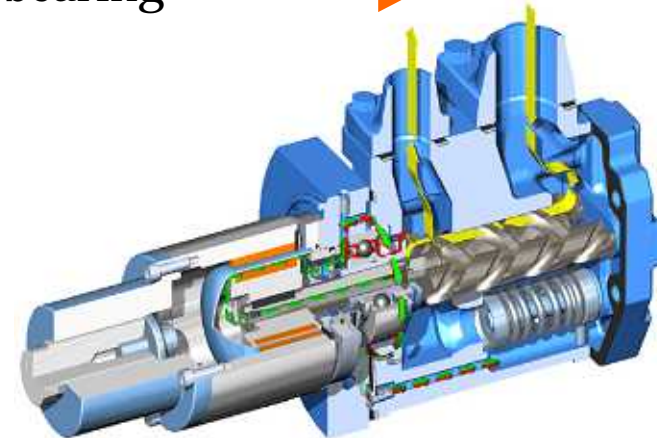
All magnetic couplings
need cooling

Flow patterns

Main flow →

Cooling of magnetic
coupling →

Lubrication of
bearing →



But in IMO design:

No external cooling source is
required, because a fraction of
the main flow is used for

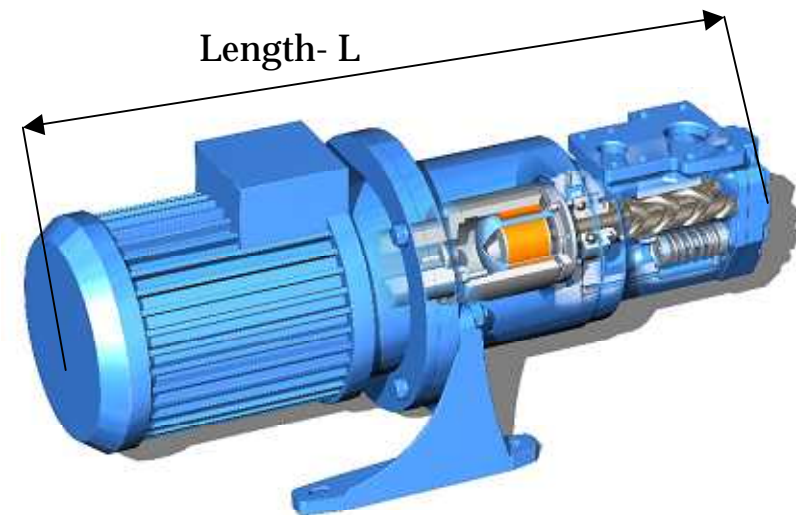
- Cooling of coupling
- Lubrication of bearing

Opti Line pump

Opti Line retains compact design feature

Comparison of total length is shown below

Pump Size	IEC No	L-Opti Line	L- Std Line	Diff. %
025	80	541	521	4%
	90	575	565	2%
032	80	577	557	3%
	90	611	601	2%
	100	682	647	5%
	112	695	660	5%
038	80	575	569	1%
	90	609	613	-1%
	100	680	659	3%
	112	693	672	3%
	132	764	744	3%



Dimension in mm

Opti Line pump

Drop-in replacement is possible

Opti Line and traditional mechanical shaft seal ACE pump have the same technical data and they are compatible

Technical data:

- *Capacity:* *0.6 – 9.5m³/h*
- *Max diff Pressure:* *16bar*
- *Viscosity:* *1.6 -1500cSt*
- *Temperature range:* *-20 to +160°C*
- *Max speed:* *3600rpm*

Opti Line pump

Economical aspects on pump selection

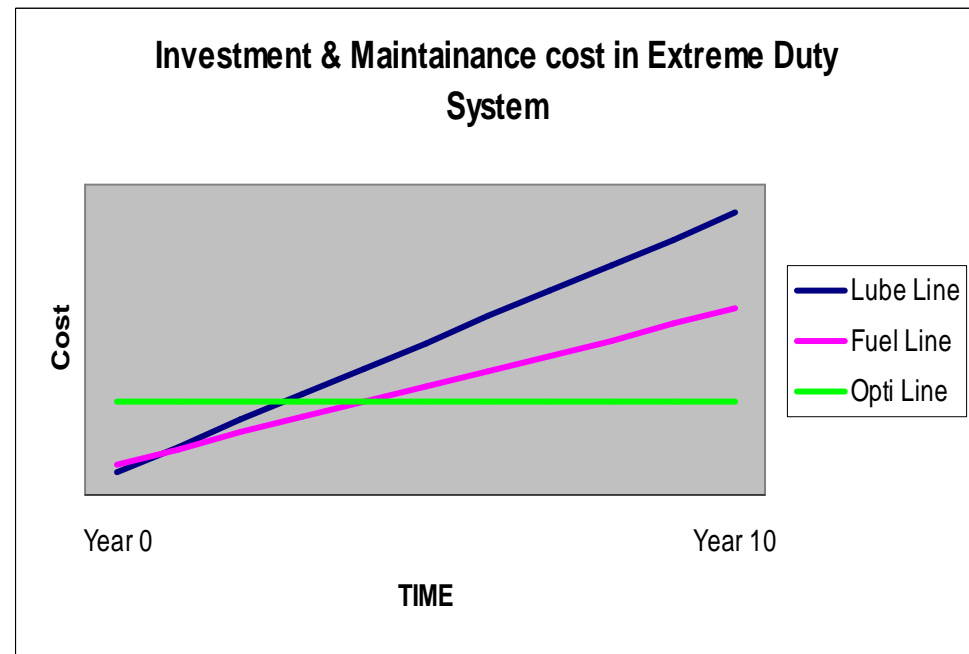
Investment and Maintenance Costs Comparison Between Lube, Fuel and Opti Line Pumps In Different Applications

- Light duty (*Lube oil system*)
 - *Low wear rate of shaft seal*
- Heavy duty (*HFO system*)
 - *Medium wear rate of shaft seal*
- Extreme duty (*High temp HFO system*)
 - *High wear rate of shaft seal*

Opti Line pump

Extreme duty application

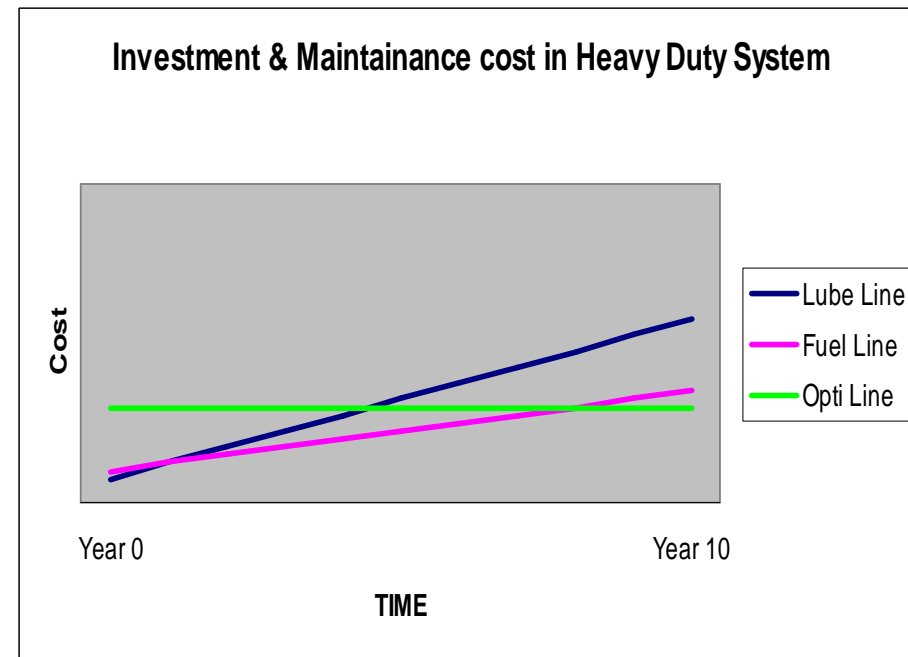
- In a extreme duty system, ex. booster system HFO supply and cir. pumps , the best selection is a Opti Line pump version
- The increased investment cost of Opti Line pump will be paid off under a short time



Opti Line pump

Heavy duty application

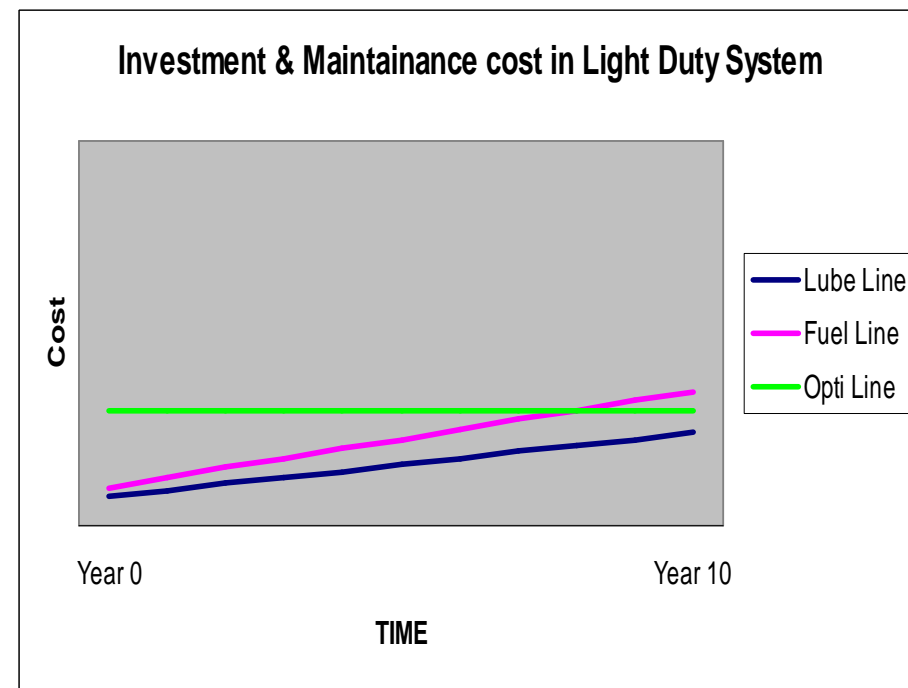
- In a heavy duty system, ex. HFO transfer pump or HFO separator feed pump, Opti Line or Fuel Line pump should be selected
- Lube Line pump version is not a economical solution



Opti Line pump

Light duty application

- In a light duty system, ex. DO/LO transfer pump or DO/LO separator feed pump, the best selection is a Lube Line pump version
- The increased investment cost of Fuel or Opti Line pump will not be paid off shortly





Opti Line pump

**Opti Line is optimal solution for
handling extreme duty applications**

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