

Upto  
10000  
SUS

# TRICO



*High-Viscosity  
Gear and Lube Oil*

## FILTRATION SYSTEMS

- Conditioning lubricants already in use
- Filtering new oil before putting into service
- Complementing existing system filtration as part of a preventative maintenance program
- Transferring new fluids from drums to storage tanks or system reservoirs

Your portable assurance  
to clean, dry oil.



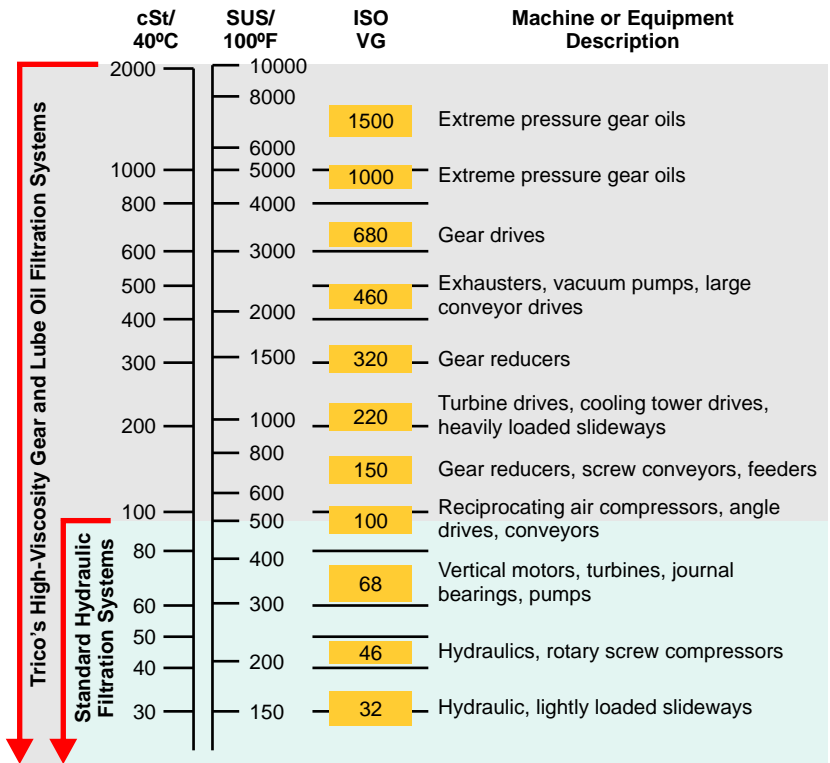
## Description

In the past choices were very limited when it came to filtering lubricants with viscosities greater than 500 SUS @ 100°F. Now Trico offers a solution with our filtration systems. The problem with attempting to filter a high viscosity oil with a lower viscosity system is that the pump and filters are not designed to work with higher pressures required to push high viscosity fluids through the system. As a result these low viscosity units operate primarily in “bypass” mode where little if any of the high-viscosity oil get filtered.

That is where Trico’s High-Viscosity Gear and Lube Oil Filtration Systems come in. These systems are specifically designed for high-viscosity fluids associated mainly with gear oils and can filter oils up to 10000 SUS @ 100°F (2000 cSt @ 40°C).

To ensure that the equipment receives the cleanest oil possible, for increased equipment life, Trico’s filtration systems provide two-stage filtration. The oil flows through the primary filter first, where coarse particulate is removed. Then the fluid flows through the secondary filter where fine particulate and water are removed.

## Viscosity Range



The above chart reflects operating range for filtration systems with oil temperatures at 40°C for cSt and 100°F for SUS.

## HAND-HELD SYSTEM

### Oil Sampling Ports

Two sampling ports available to monitor condition of oil

### Differential Pressure Gauges

Indicates when elements need to be changed

### Dual Filters

Two-stage filtration for long element life and pump protection



### Gear Pump

Industrial quality for long life

### Compact Frame

Lightweight design provides flexibility to service equipment located in hard to reach areas

### Hoses

Heavy-duty reinforced clear PVC

P/N - 36971

Hand-held, portable unit ideal for hard to reach places and applications with 3-50 gallon reservoirs.

## Specifications

Pump Type	Industrial Grade Gear Pump
Flow Capacity	1 GPM
Gear Pump Speed	1725 RPM
Maximum Inlet Vacuum	15" of Mercury
Hose Sizing @ 2 ft/sec	.75" Inlet @ 6' Long
Max. Operating Temperature	110°F Continuous ~ 150°F Limited Use
Pump By-Pass	85 PSI
Filter By-Pass	43 PSI
Maximum Viscosity	<b>2000 cSt @ 40°C / 10000 SUS</b>
Seal and Gasket Material	Viton®
Electrical Service Required	115 Volts, 10 Amps, Single Phase, 60 Hz
Weight	50 lbs
Dimensions	27"W x 13"D x 17"H

## Fluid Compatibility

Compatible with most petroleum based oils such as: hydraulic oils, gear oils, turbine oils, transformer oils, and motor oils as well as water-oil emulsions and water glycol. If you are unsure, call Trico with your specific fluid and we can identify and ensure fluid compatibility.

## Recommended Run Time

$\frac{\text{Sump Size (gallons)} \times (6 \text{ or } 7 \text{ turnover}^*)}{1 \text{ gpm}} = \text{minutes}$

\*Depending on industry standard being followed

# PORTABLE CART SYSTEM

**Bypass Valve**  
Allows transfer of oil without filtering

**Oil Sampling Ports**  
Two sampling ports available to monitor condition of oil

**Quad Filters**  
Four-stage filtration for long element life and pump protection

**Industrial Strength Tires**  
Wide tires capable of getting over large grate gaps.

**Heavy Duty Cart**  
Rugged and built to last

**Differential Pressure Gauges**  
Indicates when elements need to be changed

**Hose & Wand Assembly**  
Heavy steel wire reinforced clear PVC hoses with 3' long metal wands

**Drip Pan**  
Keeps work area safe and clean



**P/N - 36970**

*Portable filtration cart that can service multiple pieces of equipment*

## Specifications

Pump Type	Industrial Grade Gear Pump
Flow Capacity	4 GPM
Gear Pump Speed	1725 RPM
Maximum Inlet Vacuum	8" of Mercury
Hose Sizing @ 2 ft/sec	1.25" Diameter @ 6 ft Long
Max. Operating Temperature	110°F Continuous ~ 150°F Limited Use
Pump By-Pass	105 PSI
Filter By-Pass	43 PSI
Maximum Viscosity	<b>2000 cSt @ 40°C / 10000 SUS</b>
Seal and Gasket Material	Viton®
Electrical Service Required	120 Volts, 20 Amps, Single Phase, 60 Hz
Weight	140 lbs
Dimensions	28"W x 21"L x 48"H

## Fluid Compatibility

Compatible with most petroleum based oils such as: hydraulic oils, gear oils, turbine oils, transformer oils, and motor oils as well as water-oil emulsions and water glycol. If you are unsure, call Trico with your specific fluid and we can identify and ensure fluid compatibility.

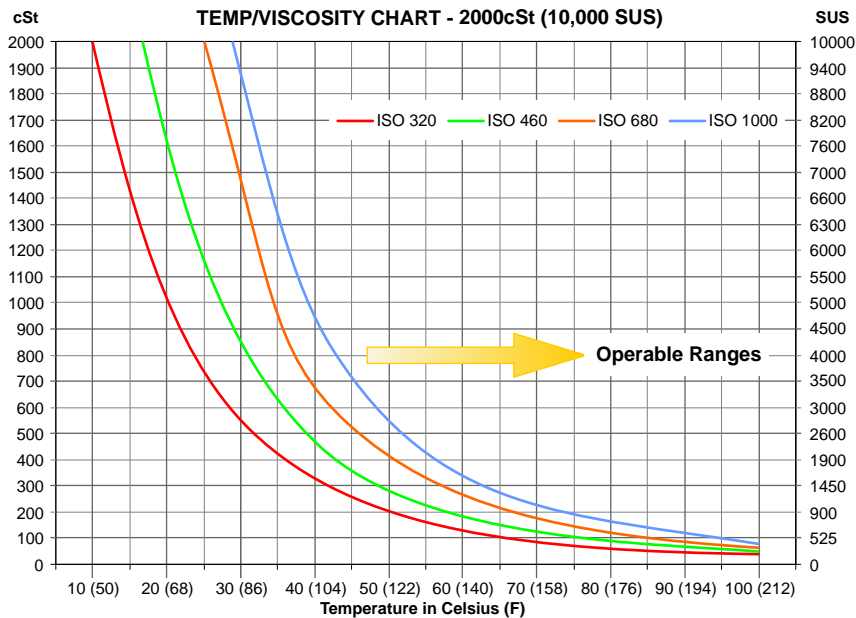
## Filter Media

Filter media specifications for the hand-held and cart filtration systems are located on the next page.

## Recommended Run Time

$$\frac{\text{Sump Size (gallons)} \times (6 \text{ or } 7 \text{ turnover}^*)}{4 \text{ gpm}} = \text{minutes}$$

*\*Depending on industry standard being followed*



### Temperature/Viscosity Chart

The chart to the left illustrates the operating range for different lubricant viscosity at specific temperatures. Anything on or to the right of the curve indicates the optimum operating range for the filtration systems for the specified lubricant viscosity.

### Filter Media Selection

To select the proper filter media, the most sensitive component in the system must be identified. Many manufacturers specify the optimum cleanliness level required for their components. Subjecting components to fluids with higher contamination levels may result in shorter component life. See chart below.

#### RECOMMENDED FLUID CLEANLINESS ISO LEVELS

	12/9	14/11	16/13	18/15	20/17	22/19	24/21	26/23
Hydraulic Fluids	Very Clean	Clean	Dirty					
Gear Oils		Very Clean	Clean					Dirty
Engine Lubes		Very Clean	Clean			Dirty		
Turbine Oils	Very Clean	Clean	Dirty					

#### HAND-HELD FILTER MEDIA

	36976	36977	36978
Filter Type	Particulate	Particulate	Water
Media Type	Fiberglass	Fiberglass	-
Diameter	3.7"	3.7"	3.7"
Length	8"	8"	8"
Thread	3/4-16 UN-2B	3/4-16 UN-2B	3/4-16 UN-2B
Micron Rating	3	10	25
Beta Ratio	Beta 3 ?200	Beta 10 ?200	10 micron nominal
Dirt Holding Capacity	41 grams	48 grams	N/A
Water Holding Capacity	N/A	N/A	8 oz

#### PORTABLE CART FILTER MEDIA

	36972	36973	36974	36975
Filter Type	Particulate	Particulate	Particulate	Water
Media Type	Fiberglass	Fiberglass	Fiberglass	-
Diameter	5"	5"	5"	5"
Length	11"	11"	11"	11"
Thread	1 1/2-16 UN-2B	1 1/2-16 UN-2B	1 1/2-16 UN-2B	1 1/2-16 UN-2B
Micron Rating	3	10	20	10
Beta Ratio	Beta 3 ?200	Beta 10 ?200	Beta 20 ?200	10 micron nominal
Dirt Holding Capacity	102 grams	120 grams	125 grams	N/A
Water Holding Capacity	N/A	N/A	N/A	16 oz*

\*Based on flow rate and viscosity



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