

Oil Cleanliness , Oil Sampling and Oil Analysis

are generally recognized as the central ingredients for Condition Based Maintenance on lubricated rotating machinery.

Most manufacturers of industrial gearboxes, power train components and hydraulic systems, specify oil cleanliness levels in their warranty, but only a few make recommendations or provisions for implementing the necessary procedures.

True Kidney-Loop Filtration functions independently of the designed lubrication system of the machine. Like on demand oil dialysis, it remains the best form of health care for extending the service life of lubricated equipment. Also called off-line filtration, it can be added to most equipment in the field.

OILMISER™ Technology offers a family of tools and accessories that will bring the benefits of kidney-loop filtration to most lubricated equipment in a matter of minutes.

To add Kidney-Loop Filtration to your machinery, you will require three prerequisites:

1. a high quality air breather to control airborne contamination in the air space above the oil.
2. an oil outlet below the oil level for a suction line from the gearbox sump or hydraulic reservoir.
3. an oil inlet above the oil level, for the continuous return of recycled polished oil, back to the machine.

The OILMISER™ Off-Line Filtration Kit delivers all three prerequisites in one, easy to install, component

Hydraulic Reservoirs & Kidney-Loop Filtration

On hydraulic systems oil quality is essential for equipment reliability. High pressures, high speeds, close mechanical tolerances, and high operating temperatures, means that oil cleanliness is crucial to the life expectancy of hydraulic components.

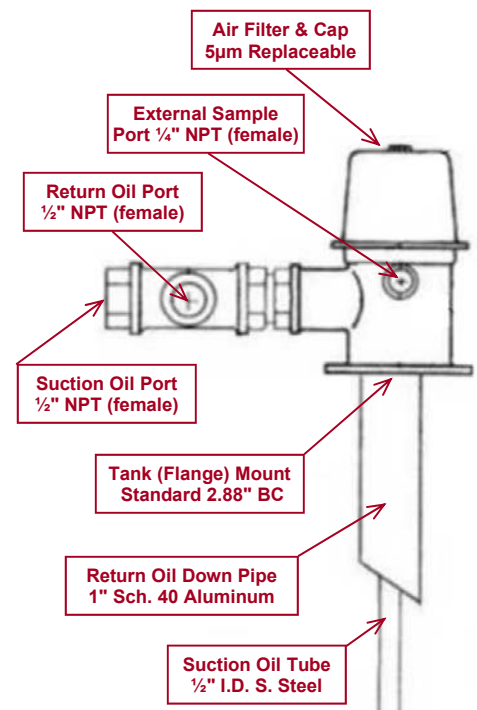
The OILMISER™ tank mounted Off-Line Filtration Kit pictured left, adds independent kidney-loop filtration to most hydraulic reservoir in minutes. Without any tank modifications, the six screws and the existing filler breather are removed, exposing the 2" diameter opening. The OILMISER™ Off-Line Filtration Kit, with the same 6 hole footprint is then inserted into the reservoir, and screwed into place.

A pipe mounted version of the OILMISER™ Off-Line Filtration Kit is also available in two models.

- Part Number: **OLF-1310-F200** has a 2" female pipe thread.
- Part number: **OLF-1310-M200** has a 2" male pipe thread.

All OILMISER™ Off-Line Filtration Kits can be ordered with a variety of options. These include an external oil sampling port (-SP) with an internal sampling tube, a variety of top end couplers (-TEC) to accommodate alternative air filters, including desiccant air breathers, and quick disconnects (-QD) with dust covers.

The OILMISER™ Off-Line Filtration Kit is shipped fully assembled, and ready for immediate installation.



Gearboxes & Kidney-Loop Filtration

OILMISER™ Technology brings the many benefits of kidney-loop filtration to lubricated gearboxes, speed reducers and drive line components. In a matter of minutes, an OILMISER™ **Gearbox Breather, (GTB)** and an OILMISER™ **Gearbox Service Point (GSP)** can be installed on your existing lubricated equipment

Unique in the lubrication industry, all OILMISER™ Gearbox Breathers have two internal passages. This exclusive OILMISER™ design meets **two of the three prerequisites** for true Off-Line filtration.

1. a separate airway and high quality **air breather** to control contamination in the air space above the oil.
2. a second passageway above the oil level, used as the **oil inlet** for the continuous recycling of polished oil.

The OILMISER™ **Gearbox (Top) Breather (GTB)** mounts directly into the **fill** or **vent** port on the gearbox. Using a male pipe thread from ¾" NPT to 1½" NPT, it is shipped fully assembled, ready for installation. An optional 360° swivel is available whenever location or clearances prevent turning in the complete assembly. The **GTB** pictured right, comes with a ½" NPT air filter assembly, using the OILMISER™ 5 micron replaceable filter element, and a high visibility molded plastic cap. Also included is the **coupler half** of a Quick Disconnect and a Dust Cover.



The OILMISER™ **Gearbox (Side) Breather (GSB)** pictured left, offers all the features and options of our **GTB** series. It utilizes a side fill port, or sight level glass port on the gearbox. Available pipe sizes range from 1" NPT to 2" NPT.

- The unit on the left is for a 1"NPT side port, and features a ½" NPT inlet port, an optional top end coupler, and a 1 inch sight level window.

The Third Prerequisite

The **third prerequisites** for Off-Line filtration, is a bottom oil outlet port for the suction line to the filtration unit.

The OILMISER™ **Gearbox Service Point (GSP)** mounts directly into the drain port of the gearbox with a male pipe ranging from ¾" NPT to 1½" NPT. A solid male pipe is standard, or you can order it with an optional 360° swivel, where clearances are restricted. The **GSP** also includes the **male half** of the Quick Disconnect and Dust Cover.

To further increase the usefulness of the OILMISER™ **Gearbox Service Point**, we include our exclusive OILMISER™ **3 piece sampling tube** and Minimesstest point. This features our large bore stainless steel pitot tube with a full ¼" inside diameter, designed for sampling your heaviest gear oils when using a hand held vacuum pump.

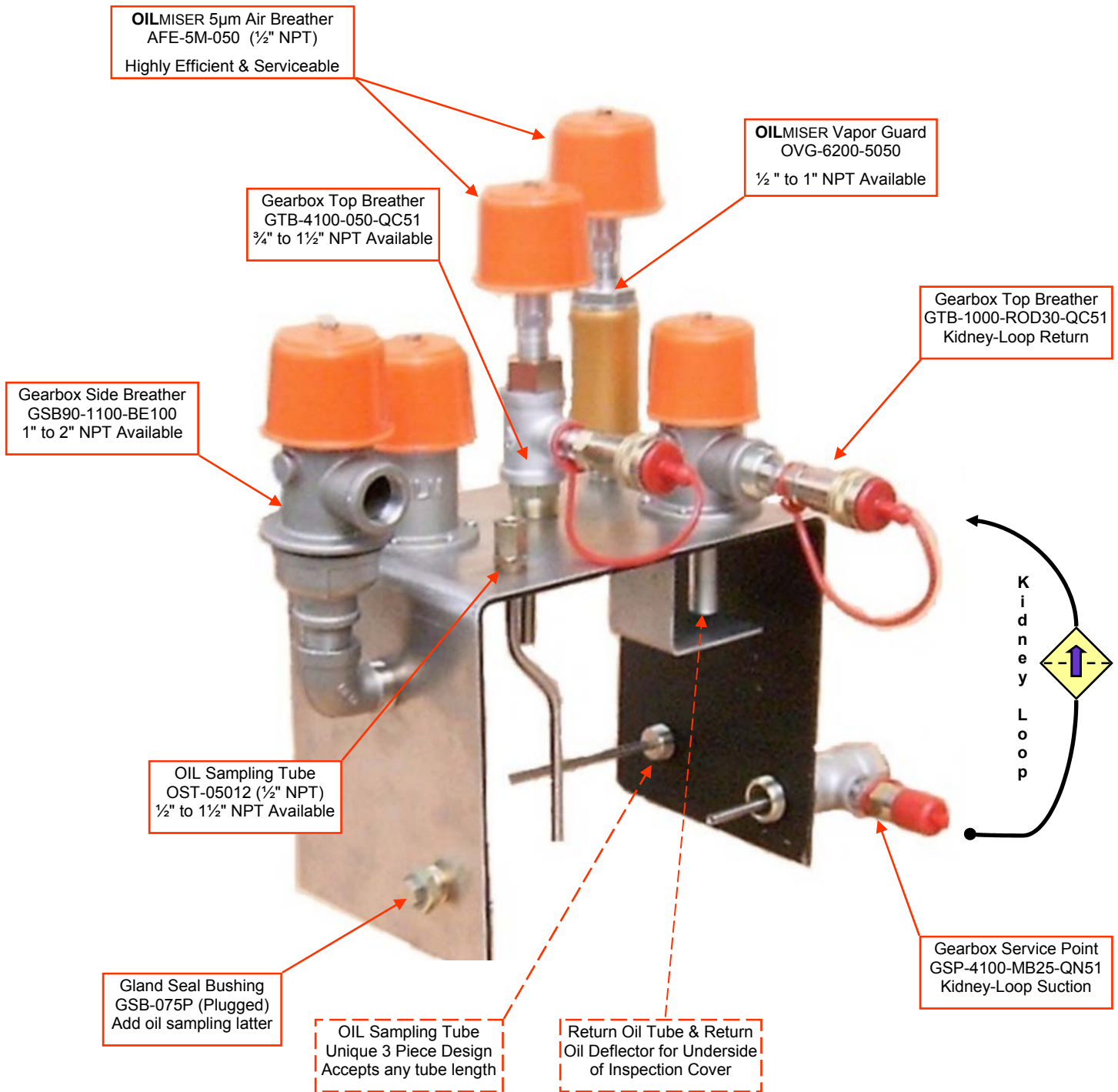
The **Gearbox Service Point** is shipped fully assembled, with a Minimesstest point as pictured above. For heavier gear oils (VG 220 and up), the **GSP** can be ordered with a **high viscosity-high flow (HF25)** sampling valve.

With an OILMISER™ **Gearbox Top Breather** in the vent port, and an OILMISER™ **Gearbox Service Point** in the drain port, the benefits of true off-line filtration are immediately at hand. In minutes, the suction line to your filtration unit is connected to the quick disconnect at the bottom of your gearbox. The filter cart pressure line is then connected to the quick disconnect on top of your gearbox. This closes the loop in true, and independent **kidney-loop filtration**.



OILMISER™ Means Reliability Centered Maintenance From Top to Bottom

Air Quality • Fluid Handling • Oil Sampling • Kidney-Loop Filtration



OILMISER™ Means Reliability Centered Maintenance From Top to Bottom

Air Quality • Fluid Handling • Oil Sampling • Kidney-Loop Filtration

