

VISUAL OIL ANALYSIS:

Oil Sight Glass

Inspect oil and drain water out of your reservoir with the original solution to oil inspection problems.



APPLICATIONS:

- Pumps
- Gearboxes
- Storage Tanks
- Fluid-Lubricated Machinery

The Overview

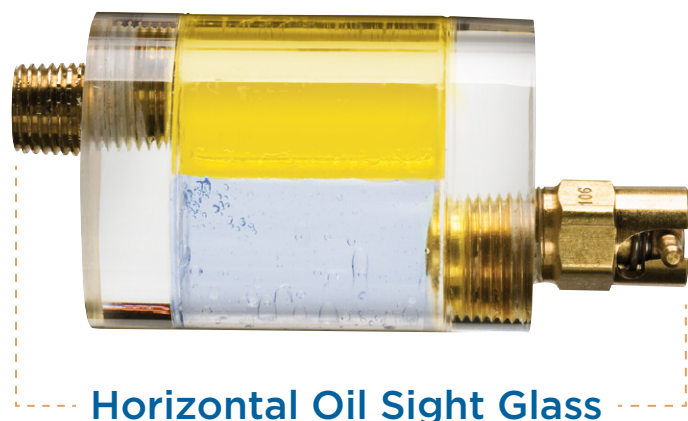
Oil Sight Glass:

Key Benefits

- 360° view of oil clarity
- Easily collect and drain water
- Durable and stain resistant
- Designs available for space limitations
- Easy to install

By the Numbers:

- 1-Brass Nipple (optional stainless steel)
- 2-Overall Length
- 3-Collected Water
- 4-1/4"NPT Brass Drain Valve (optional stainless steel or magnet drain)
- 5-Diameter of Bottle



The Overview:

With the Oil Sight Glass (OSG), users have an immediate visual inspection of the oil and the ability to drain any accumulated water. The OSG is installed directly to a drain port located at the bottom of a reservoir or with an elbow for drain ports located on the side of the equipment. The spring loaded drain valve is utilized to purge any accumulated water. Any sediment or particles in the lubricating fluid will migrate to the OSG where, upon inspection, the user can determine the appropriate action.



The Specs

Material:

- Stain-resistant acrylic
- Brass fittings standard

Recommended Temperature Range:

- -40°F to 200°F
- -40°C to 93°C

Maximum Operating Pressure:

- 65 psi
- 4.48 bar

Chemical Compatibility:

- All gear, mineral and synthetic oils

Available Options:

- 1/4", 3/8", and 1/2"NPT ports
- 1oz, 3oz, 16oz and 32oz sizes
- Stainless steel fittings
- Magnetic drain valve for collecting ferrous material

Sizing:

| Part Number | Description | Overall Length | | Outside Diameter | |
|------------------|-------------|----------------|-------|------------------|-------|
| | | (in) | (cm) | (in) | (cm) |
| Vertical Sizes | | | | | |
| DC-OSG1X250 | 1oz X 1/4" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG1X375 | 1oz X 3/8" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG1X500 | 1oz X 1/2" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG3X250 | 3oz X 1/4" | 2.5 | 6.35 | 2.50 | 6.35 |
| DC-OSG3X375 | 3oz X 3/8" | 2.5 | 6.35 | 2.50 | 6.35 |
| DC-OSG3X500 | 3oz X 1/2" | 2.5 | 6.35 | 2.50 | 6.35 |
| DC-OSG16X500 | 16oz X 1/2" | 5 | 12.70 | 3.50 | 8.89 |
| DC-OSG32X500 | 32oz X 1/2" | 5 | 12.70 | 4.50 | 11.43 |
| Horizontal Sizes | | | | | |
| DC-OSG1X250HZ | 1oz X 1/4" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG1X375HZ | 1oz X 3/8" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG1X500HZ | 1oz X 1/2" | 2.5 | 6.35 | 1.75 | 4.45 |
| DC-OSG3X250HZ | 3oz X 1/4" | 2.5 | 6.35 | 2.50 | 6.35 |
| DC-OSG3X375HZ | 3oz X 3/8" | 2.5 | 6.35 | 2.50 | 6.35 |
| DC-OSG3X500HZ | 3oz X 1/2" | 2.5 | 6.35 | 2.50 | 6.35 |

Contact Des-Case at info@descase.cz for guidance on chemical compatibility, recommended temperature or pressure ratings.



The Questions

Do I still need a desiccant breather if using the Oil Sight Glass?

Yes. Desiccant breathers prevent moisture and contaminants from entering the fill port of equipment and pull moisture from the headspace. However, a desiccant breather cannot remove large amounts of water already mixed into the oil. That is why combining the use of desiccant breathers with oil filtration and an OSG to isolate and remove free-flowing water from the oil is best practice. Additionally, the OSG will act as an early indicator of a contaminants problem.

How durable is acrylic?

Acrylic is extremely durable and stain resistant, and it is capable of withstanding years of exposure to sun, rain and other extreme weather conditions. Des-Case keeps the wall thicknesses robust to enhance the strength and ensure they withstand the environments they are installed in.

Does the Oil Sight Glass work with all oils?

Yes, the OSG will collect sediment and free-flowing water from any oils. They are best used with high-quality synthetic oils, as synthetics tend to do a more efficient job separating water.

Does the Oil Sight Glass replace the need for oil filtration?

While the OSGs will isolate and remove free-flowing water, it is still recommended that you utilize other filtration systems to remove all water contamination from your oil. The OSG will be an early indicator of contamination problems and can help find the source of such problems, but the OSG alone will not prevent moisture from entering your reservoir or remove any water that has become emulsified in the oil. Contact us at sales@descase.com for more information on filtration systems.

Can the Oil Sight Glass replace my oil sampling program?

Oil sampling and analysis is still recommended, as it is best practice. The OSGs are part of a comprehensive preventative maintenance program, and they will show users early indications of various forms of contamination.

Can I pull an oil sample from the Oil Sight Glass?

Water and other contaminants tend to sink to the bottom of a reservoir. Because of this, samples taken from the OSG will typically be “dirtier” than the rest of the oil in the reservoir. Best practice dictates that a sample should be drawn from the center of an oil reservoir. Sampling tubes can be utilized in conjunction with the OSG to draw a representative oil sample to be analyzed.

Can I use the Oil Sight Glass in freezing conditions?

The OSG can safely be used in temperatures as low as -40°F as long as they are not allowed to fill completely with water. Be cautious with intermittent applications when using OSGs in cold environments; repeated drastic changes in temperature can cause the caps and body to expand at slightly different rates, degrading the bonds over time. If you have these conditions, we recommend using a single-piece OSG, as that will not have the same expansion issues (or bonds which can break down). Contact Des-Case for a single-piece solution.

I'm concerned about the Oil Sight Glass breaking. What can I do to prevent this?

First, try to install the OSG in a location that is protected from mobile equipment or other high-impact hazards. It is also recommended that users install a ball-valve between the drain port and the OSG. The ball-valve allows instantaneous shut off of oil flow if necessary.

How can I clean/replace the VOA products without having to drain the oil from my equipment?

Installing a ball-valve between your drain port and the OSG will allow users to shut off the flow of oil in order to clean or replace the product. Cleaning the products typically requires just soap and water. Cleaning agents should be avoided, as they can cause fogging, crazing and degradation of the optical quality of the acrylic.