

Lubrication Monitoring & Inspection



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Lubricant Monitoring & Inspection Line

Save Your Equipment with Constant Oil Monitoring

The Lubricant Monitoring & Inspection product line consists of:

- 3D BullsEye™
- Oil Level Sight Monitor Glasses & Water drain
- Oil Level Indicator
- Oil Sight Glass - Level Monitor & Water drain
- Accessories and Add-ons

Our lubricant monitoring & inspection products provide lubrication management professionals a complete and immediate visual oil analysis.

The Oil Sight Glass is a clear acrylic cylinder that installs in the drain port of the oil reservoir of pumps, gear boxes, bearing housings and other lubrication-critical pieces of equipment. It provides continuous fluid monitoring of the clarity, color, sediment, and water contamination. The drain valve allows for discharge of accumulated water. These products enable personnel in many industries to constantly manage the condition of their oil.

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Benefits of Lubricant Monitoring & Inspection tools:

- Installs in minutes
- Constant visual monitoring of oil
- Minimal maintenance
- Easy discharge of accumulated water
- Pressure and temperature ratings handle most operating environments
- See problems before they cause lost time or damage to critical equipment



Minimal Maintenance:

The OSG, OSGL and 3-D BullsEye require only periodical cleaning if scale or residue builds up to the point where the view of the fluid is obstructed.

The **No. 1** cause of **equipment failure** is poor lubrication practices associated with **oil levels and contamination**.






















A Simple Visual Inspection Program can resolve a majority of the problems with minimum investment

Lubricant Monitoring & Inspection Line

Eliminate the # 1 Cause of Equipment Failure!

The visual oil inspection products are designed for easy installation on almost all lubricating machinery oil reservoirs. Constructed of durable acrylic, they withstand most petroleum products to remain crystal clear and functional for years.

BENEFITS

PRODUCTS		Drain Water	View Oil Clarity	Monitor Oil Level	Support High Temp Operation	Meet Space Limitations	View 360°
	3-D BullsEye™						
	Oil Sight Glass Vertical						
	Oil Sight Glass Horizontal						
	Hi-Temp Oil Sight Glass						
	Oil Level Indicator						
	Oil Sight Glass Level Monitor						

Product Line:

To facilitate various equipment configurations, the Oil Sight Glass product line includes following models:



3-D BullsEye™

Product Description

3-D BullsEye makes the job of a lubrication technician or maintenance manager easier. The standard, flush mounted sight windows on oil reservoirs make it difficult to view the oil level, stain easily, and must be replaced often. The old-fashioned sight plug has been improved and replaced by the so called **3-D BullsEye**.

The 3-D BullsEye is a clear cylinder made from one solid piece of acrylic with threading on one end and a rounded polished end for easier viewing of the oil on the other. Easily installed by wrapping the threads with Teflon tape, the 3-D BullsEye provides constant oil monitoring from any angle. The 3-D BullsEye is built to last.

Specification

- Replaces brass & glass, flush-mounted sight windows for better viewing
- Sizes 1/2" NPT and above are a solid piece of cast acrylic with male threads
- Sizes 1/4" and 3/8" NPT come with female threads and brass nipples included
- All metric sizes come with female threads and brass nipple and gasket included

Operating Range

- 180° F (82°C) to 265 PSI
- 203° F (95°C) to 66 PSI
- 230° F (110°C) at atmospheric pressure
- -40° F (-40°C) minimum low temperature



Before



After



3-D BullsEye

3-D BullsEyes – sizes and partnumbers

Part numbers	Sizes	Dimensions	
	BullsEyes	Imperial	Metric
SG-3DB0250	1/4" NPT	1.000" OD, 1.375" L	2,5 cm OD, 3,5 cm L
SG-3DB0375	3/8" NPT	1.125" OD, 1.375" L	2,9 cm OD, 3,5 cm L
SG-3DB0500	1/2" NPT	0.875" OD, 1.000" L	2,2 cm OD, 2,5 cm L
SG-3DB0750	3/4" NPT	1.125" OD, 1.375" L	2,9 cm OD, 3,5 cm L
SG-3DB1000	1" NPT	1.375" OD, 1.375" L	3,5 cm OD, 3,5 cm L
SG-3DB1250	1 1/4" NPT	1.750" OD, 1.375" L	4,4 cm OD, 3,5 cm L
SG-3DB1500	1 1/2" NPT	2.000" OD, 1.375" L	5,1 cm OD, 3,5 cm L
SG-3DB2000	2" NPT	2.500" OD, 1.500" L	6,4 cm OD, 3,8 cm L
3-D BullsEye Metric	Sizes		
SG-3DBM10X10	M10 X 1.0	0.875" OD, 1.000" L	2,2 cm OD, 2,5 cm L
SG-3DBM10X15	M10 X 1.5	0.875" OD, 1.000" L	2,2 cm OD, 2,5 cm L
SG-3DBM12X15	M12 X 1.5	0.875" OD, 1.000" L	2,2 cm OD, 2,5 cm L
SG-3DBM16X15	M16 X 1.5	1.000" OD, 1.000" L	2,5 cm OD, 2,5 cm L
SG-3DBM20X15	M20 X 1.5	1.250" OD, 1.062" L	3,2 cm OD, 2,7 cm L
SG-3DBM22X15	M22 X 1.5	1.250" OD, 1.062" L	3,2 cm OD, 2,7 cm L
SG-3DBM24X15	M24 X 1.5	1.375" OD, 1.125" L	3,5 cm OD, 2,9 cm L
SG-3DBM26X15	M26 X 1.5	1.500" OD, 1.187" L	3,8 cm OD, 3,0 cm L
SG-3DBM27X15	M27 X 1.5	1.500" OD, 1.187" L	3,8 cm OD, 3,0 cm L
SG-3DBM30X15	M30 X 1.5	1.750" OD, 1.250" L	4,4 cm OD, 3,2 cm L
SG-3DBM30X20	M30 X 2.0	1.750" OD, 1.250" L	4,4 cm OD, 3,2 cm L
SG-3DBM33X15	M33 X 1.5	1.750" OD, 1.250" L	4,4 cm OD, 3,2 cm L
SG-3DBSP0500	1/2" BSPP	0.875" OD, 1.000" L	2,2 cm OD, 2,5 cm L
SG-3DBSP0750	3/4" BSPP	1.125" OD, 1.375" L	2,9 cm OD, 3,5 cm L
SG-3DBSP1000	1" BSPP	1.125" OD, 1.375" L	3,5 cm OD, 3,5 cm L

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Oil Level Sight Glasses & Water Drain

Product Description

Water wreaks havoc on lubrication systems, causing premature wear. With the 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 drain off any water contamination. Any sediment or particles in the lubricating fluid will matriculate to the OSG where, upon inspection, the user can determine the appropriate action.

Specification

- Commercial Grade Cast Acrylic
- Brass, spring-loaded drain valve included (1/4" NPT)
- 1/4", 3/8" or 1/2" NPT brass nipple included
- Stainless steel hardware available
- Available in 16 oz. and 32 oz. sizes

Operating Range

- 180° F (82°C) to 265 PSI
- 203° F (95°C) to 66 PSI
- 230° F (110°C) at atmospheric pressure
- 05 • -40° F (-40°C) minimum low temperature



Oil Level Sight Glasses & Water Drain

Vertical Oil Sight Glasses – sizes and partnumbers

Part numbers	Sizes	Dimensions	
	Vertical	Imperial	Metric
SG-OS030N250	1oz, 1/4" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS030N375	1oz, 3/8" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS030N500	1oz, 1/2" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS085N250	3oz, 1/4" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L
SG-OS085N375	3oz, 3/8" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L
SG-OS085N500	3oz, 1/2" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L
SG-OS450N500	16 oz 1/2" NPT	3.75" OD, 4.25" L	9,5 cm OD, 10,8 cm L
SG-OS900N500	32 oz 1/2" NPT	4.25" OD, 5.25" L	10,8 cm OD, 13,3 cm L

Horizontal Oil Sight Glasses – sizes and partnumbers

Part numbers	Sizes	Dimensions	
	Horizontal	Imperial	Metric
SG-OS030N250HZ	1oz, 1/4" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS030N375HZ	1oz, 3/8" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS030N500HZ	1oz, 1/2" NPT	1.75" OD, 4.00" L	4,4 cm OD, 10,2 cm L
SG-OS085N250HZ	3oz, 1/4" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L
SG-OS085N375HZ	3oz, 3/8" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L
SG-OS085N500HZ	3oz, 1/2" NPT	2.50" OD, 4.00" L	6,4 cm OD, 10,2 cm L

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Large Volume Oil Sight Glass for special applications:



- Available in 16 or 32 ounces. Shown above relative to the 1 ounce and 3 ounce glasses
- Used in applications where the reservoir or equipment produces a high water volume
- Provides the extra storage to keep water out of the oil until it can be drained

High Temperature Oil Sight Glass

The **High Temperature Oil Sight Glass** is your answer when radiant heat from nearby equipment or unusually high operating temperatures exceed the safe use of the Legacy Oil Sight Glasses. Only available in Vertical Style, the Pyrex Glass and Teflon End Caps allow for operating and environmental temperatures up to 450° F (232° C). So even under extreme temperature conditions, you will still be able to visually monitor the oil qualities and expel water contamination. This enhanced product continues to provide the visual oil management benefits when the Tattle Tale, Bottom Sediment and Water Bowl, BS&W, Pig Tail or BullsEye fail to operate due to high temperatures.

Specification

- Heavy-walled Pyrex glass
- Teflon™ end plates
- Stainless steel nuts & bolts
- Viton O-rings
- 1/4", 3/8" or 1/2" NPT brass nipple included
- Brass drain valve (1/4" NPT)
- Stainless steel hardware or magnetic drain valve options available



Operating Range

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- 450° F at 200 PSI



New in our assortment: the Guardian!

The Guardian breathers incorporate technology that significantly extends desiccant life, reduces costs, maintenance intervals, and increase the lifespan of your fluids and critical equipment.

For more info: www.enluse.com



High Temperature Oil Sight Glass

High Temperature Oil Sight Glass – sizes and partnumbers

Part numbers	Sizes	Dimensions	
		Imperial	Metric
SG-OS030N250HT	High Temp 1oz, 1/4" NPT	2.75" OD, 2.50" L	7,0 cm OD, 6,4 cm L
SG-OS030N375HT	High Temp 1oz, 3/8" NPT	2.75" OD, 2.50" L	7,0 cm OD, 6,4 cm L
SG-OS030N500HT	High Temp 1oz, 1/2" NPT	2.75" OD, 2.50" L	7,0 cm OD, 6,4 cm L
SG-OS085N250HT	High Temp 3oz, 1/4" NPT	3.50" OD, 2.50" L	8,9 cm OD, 6,4 cm L
SG-OS085N375HT	High Temp 3oz, 3/8" NPT	3.50" OD, 2.50" L	8,9 cm OD, 6,4 cm L
SG-OS085N500HT	High Temp 3oz, 1/2" NPT	3.50" OD, 2.50" L	8,9 cm OD, 6,4 cm L



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YOUR PARTNER IN LUBRICATION MANAGENT

OilSafe is an other supporting Enluse Productline. Popular in this range are the lubricant transfer containers. Color coded and fully sealing, **OilSafe** containers ensure the accurate delivery of clean lubricant from bulk storage to point of use.

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Oil Level Indicator

Product Description

The Oil Level Indicator (OLI) was developed in response to the need of maintenance professionals to gauge the oil level inside large tanks, gearboxes and reservoirs. When water contamination is not a problem or when a regular Oil Sight Glass is already installed at the drain port, the Oil Level Indicator can be utilized to monitor oil level. The OLI is a clear acrylic tube with ½" NPT threads at each end. Red and green Buna O-rings are included with the OLI to mark upper and lower limits, or to designate running oil level and idle oil level. It can be installed with the optional breather* at the top ½" NPT port as seen on the Oil Sight Glass and Level Monitor. If the user requires a closed loop, the ½" NPT can be used as a connector port to feed back into the system. Operators can visually monitor the oil for dirt and debris and take appropriate preventive action. Why use an old style vented oil gauge that is difficult to see through and has breakable glass, when you can install a crystal clear, strong acrylic Oil Level Indicator that offers 360° of oil viewing?

Specification

- Red and Green Decals included to mark running and idle oil levels
- Top has NPT thread for optional 2 micron breather or adaptor for closed loop systems
- Breathers are not included and must be purchased separately

Operating Range

- 180° F (82°C) to 265 PSI
- 203° F (95°C) to 66 PSI
- 230° F (110°C) at atmospheric pressure
- -40° F (-40°C) minimum low temperature

When water contamination isn't an issue, the OLI can be used to monitor oil level and quality within a tank, gearbox or reservoir.

- Red & Green O-Rings mark upper and lower levels for quick inspection
- Optional Breather available for a closed loop system



Oil Level Indicator

Oil Level Indicator (OLI) – sizes and partnumbers

Part numbers	Sizes	Dimensions	
		Imperial	Metric
SG-OLI3	OLI - 3" Male, 1/2" NPT	0.875" OD, 3" L	2,2 cm OD, 7,6 cm L
SG-OLI6	OLI - 6" Male, 1/2" NPT	0.875" OD, 6" L	2,2 cm OD, 15,2 cm L
SG-OLI9	OLI - 9" Male, 1/2" NPT	0.875" OD, 9" L	2,2 cm OD, 22,9 cm L
SG-OLI12	OLI - 12" Male, 1/2" NPT Ends	0.875" OD, 12" L	2,2 cm OD, 30,5 cm L
SG-OLI15	OLI - 15" Female, 1/2" & 3/8" NPTs	1.750" OD, 15" L	4,4 cm OD, 38,1 cm L
SG-OLI18	OLI - 18" Female, 1/2" & 3/8" NPTs	1.750" OD, 18" L	4,4 cm OD, 45,7 cm L

The old way:

Brass Oil Level Indicator

Pros:

- Often included with equipment;
- Dependable & direct indication of oil level

Cons:

- Made of fragile, stainable glass;
- Limited to overall length availability;
- Limited viewing of oil level;
- No filtered breather option



The new way:

Acrylic Oil Level Indicator (OLI)

Pros:

- Adaptable to most brass oil level access ports;
- Provides 360° of viewing level;
- Stain & impact resistant;
- Available in extended lengths;
- Closed-loop or filtered breather options;
- Come with two O-rings to mark high & low levels

Cons:

- Not included with equipment



Oil Sight Glass - Level Monitor & Water Drain

Product description

When properly installed at the oil reservoir drain port, the Oil Sight Glass & Level Monitor allows the user to view the oil color, clarity, and accumulation of water or other contaminants. The strong, clear cast acrylic body allows for viewing of the level. The spring loaded drain valve is positioned to quickly discharge any water before it damages the oil lubricity. Red and green Buna O-rings are included with the OSGL to mark upper and lower limits, or to designate running oil level and idle oil level. Each Oil Sight Glass & Level Monitor comes with a 2 micron breather, which allows the oil level to equalize with the level inside the system. If you require a closed loop system, install the OSGL without the breather and use the top opening to port back into your equipment.

The height of the upper column comes in heights from 3" (7.6 cm) to 24" (61 cm) to correspond to the distance from the oil reservoir access port and the maximum height the oil will reach. Custom sizes are available. A Dual Port Oil Sight Glass & Level Monitor version is available with a second 3/8" NPT port opposite the installation nipple to allow the installation of a Sample Port for oil sampling.

Specification:

- Commercial grade cast acrylic
- Brass spring-loaded drain valve included (1/4" NPT)
- 2 micron breather (ESND2) included
- Red and green decals included to mark running & idle oil levels
- 3/8" NPT side port comes standard, nipple not included
- 11 • Available in dual port version with a second 3/8" NPT side port
- Stainless steel hardware available

Operating Range:

- 180°F (82°C) to 265 PSI
- 203°F (95°C) to 66 PSI
- 230°F (110°C) at atmospheric pressure
- -40°F (-40°C) minimum low temperature

Pros:

Made of stain & impact resistant cast acrylic;

360° viewing capability;

Comes with two O-rings to manage high & low oil levels

Cons:

Only as good as employee utilizing the tool

Oil Sight Glass - Level Monitor & Water Drain

OSG & Level Monitor – Single Port – sizes and partnumbers

Part numbers	Sizes	Dimensions	
	OSG & Level Monitor	Imperial	Metric
SG-OSGL03M	3" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL06M	6" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL09M	9" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL12M	12" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL15M	15" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL18M	18" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL24M	24" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD

OSG & Level Monitor – Dual Port – sizes and part numbers

Part numbers	Sizes	Dimensions	
	Oil Level Indicator	Imperial	Metric
SG-OSGL03D	Dual Port, 3" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL06D	Dual Port, 6" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL09D	Dual Port, 9" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL12D	Dual Port, 12" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL15D	Dual Port, 15" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL18D	Dual Port ,18" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD
SG-OSGL24D	Dual Port ,24" Oil Height, 3/8" NPT	1.75" OD	4,4 cm OD

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Oil Sight Glass & Level Monitor

Install with a union for proper vertical alignment to avoid over tightening and damage.

Units longer than 12" (30.5 cm) require a support bracket for stability

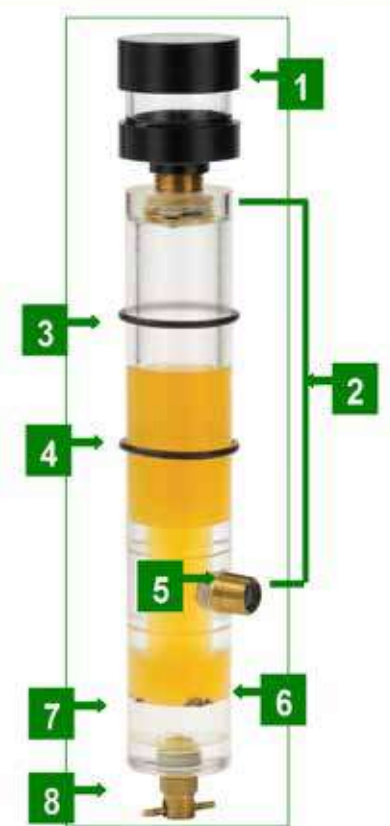
1. 2 micron breather included
2. Length – sizes from 3" (7.6 cm) to 24" (61 cm); OD 1.75" (4.4 cm)
3. Upper oil limit o-ring
4. Lower oil limit o-ring
5. 3/8" NPT port (Dual ports available)
6. Reservoir debris
7. Accumulated water
8. Drain Valve

OSG Operating Range:

180°F (82°C) to 265 PSI

203°F (95°C) to 66 PSI

230°F (110°C) at atmospheric pressure



Accessories and Add-ons

Magnet Drain Valve Option

The strong pull from this rare earth magnet will attract and hold microscopic ferrous particles. Further analysis of these particles can help determine what component is failing for replacement. The Magnet Drain Valve is easily interchanged with the standard drain valve on any Oil Sight Glass Product.

Part # SG-OSCCAMAG



Stainless Steel Hardware Option

The Oil Sight Glass products are fitted with brass hardware which will provide excellent performance for most applications; however, 304 stainless steel hardware is available for environments that cannot accept brass.

Part # SG-OSGSSDRN



Optional Breather for OLI Sizes 15" - 30" (38.1-76.2 cm)

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Non-Desiccant Breather with 2-micron filter and 3/8" NPT protects equipment from free water and small particle contamination.

Part # SG-ESND2



Optional Breather for OLI Sizes 3" - 12" (7.6-30.5 cm)

Breather Cap with 2-micron filter and 1/2" NPT protects from contamination and particles.

Part # SG-ESBCAP



Oil Sight & monitor desiccant breather 2 μ (diameter 1-3/4" (2.5-1.9 cm))

Part # SG-ASZ131SG



Industries served (selection)

Refineries



Chemical



Pulp & Paper



Oil and Gas



Manufacturing



Industrial Equipment



Water/Wastewater treatment



Food & Beverage



Dealer Information:

