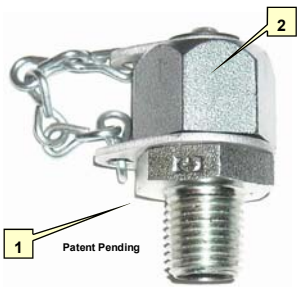


**Introducing the OILMISER™ “Pass Thru” Technology**

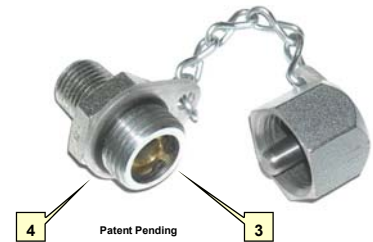
The all new **OILMISER™** family of oil sampling valves with “*Pass Thru*” technology (SV-PT) is a true game changer. The design concept behind the SV-PT stems from a rethinking of conventional oil sampling valve originally designed for high pressure hydraulic lines, and by listening to the foot soldiers on the shop floor. The sole objective is to raise the efficiency, the productivity and the end result of routine maintenance procedures carried out daily by maintenance professionals.



The **OILMISER™ SV-PT** starts with all the standard features normally found in conventional oil sampling valves:

1. a plated steel threaded body with a standard male pipe thread.
2. a plated steel hex cap, tethered to the body with a chain.
3. a raised male threaded boss that mates with the steel cap.
4. a captive O’ring seal between the body & cap.

The similarities end when the sealed hex cap is removed. A large cavity is machined into the raised boss . Held captive within this cavity is a tube seal/wiper and a brass gland bushing. This presents a well defined and very clean access point for inserting the standard ¼" OD plastic sampling tube or an **OILMISER™** stainless steel Pass-Thru Probe (PTP), directly into the interior of the machinery from above the oil level.



When the oil sample has been drawn with a vacuum pump, the plastic sampling tube or the **OILMISER™** pass-thru probe is withdrawn. The tube seal/wiper strips any residual lubricating oil from the outside surface of the sampling tube, leaving it virtually free of any oil film. Without the need for the

When the hex cap is replaced, an internal stainless steel plug plus the sealed body & cap restores the integrity of the machine. Outside contamination can’t get inside, and inside lubricating oil can’t get outside.

<b>OILMISER™ Sampling Valves with Pass-Thru Technology</b>	
<b>Part No.</b>	<b>Description</b>
SV-PT025	Pass-Thru sampling valve x ¼" NPT male pipe
SV-PT038	Pass-Thru sampling valve x ⅜" NPT male pipe
SV-PT050	Pass-Thru sampling valve x ½" NPT male pipe
SV-PT075	Pass-Thru sampling valve x ¾" NPT male pipe
PTP-2510	Pass-Thru Probe—¼" OD Stainless Steel x10" long
PTP-2515	Pass-Thru Probe—¼" OD Stainless Steel x15" long
PTP-2520	Pass-Thru Probe—¼" OD Stainless Steel x 20" long
<b>Contact Factory for Price and Delivery</b>	

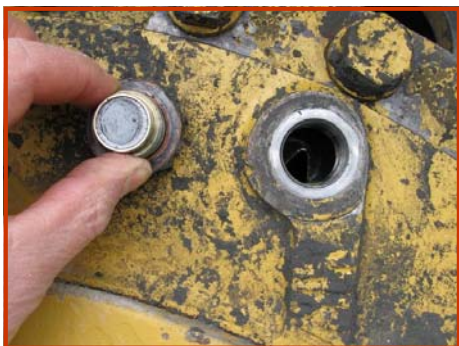


**OILMISER™ Pass-Thru Oil Sampling Tools**

**The Next Generation of OILMISER™ Sampling Valves.****A True Game Changer**

In a typical mining operation, maintenance records and cost analysis will generally show that the mine's mobile equipment can consume up to 70 percent of the total maintenance budget. Maintenance on heavy haul trucks will generally make up the largest percentage of these costs.

Work site maintenance procedures are so time sensitive that oil sampling does not make the to-do list on the regular 500 hour maintenance schedule. To draw an oil sample, an OEM oil plug has to be removed to expose a large open port. A ¼" OD plastic sampling tube connected to a hand held vacuum pump is inserted into this open port. When the oil sample is complete, and the plastic tube withdrawn, the OEM oil plug is reinstalled. This procedure is too risky and too time consuming, in a typical mining operation.



In the absence of oil cleanliness data that would accrue from a running series of oil analysis reports, all lubrication and hydraulic oils are discarded and replaced with new oil at the 2000 hour Service, Maintenance & Overhaul schedule.

In 2008, JLM Systems introduced a severe duty oil sampling plug that could survive in this type of workplace. Where it was used, oil sampling was now quick, clean, and safe enough to be added to the 500 hour service program.



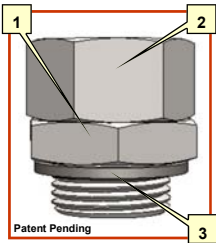
Supported by the data gathered, oil change out periods could be safely extended beyond 2000 hours to 4000 hours or longer without compromising the OEM warranty specifications for oil cleanliness.

However, some challenges still remained. All planetary final drives and differentials could not be easily accommodated. Where the OEM oil plugs are at or just above the oil level, a traditional oil sampling valve and mating quick disconnect, cannot be used.



### The OILMISER™ OIL Sampling Valves with “Pass Thru” Technology

The all new OILMISER™ Plug & Sampling Valve with “Pass Thru” technology (PSV-PT) is also designed to replace the original OEM oil plugs. It can expand the oil sampling program to include those planetary final drives and differentials that still remained outside the 500 hour maintenance & service schedule.



The OILMISER™ PSV-PT includes a plated steel threaded hex plug (1), a plated steel hex cap (2) and a bonded rubber plug seal (3). The steel hex cap mates with a raised threaded boss (4). When the hex cap is fully engaged on the hex plug, a captive O’ring (5) seals the steel body & cap against any outside contamination getting inside the machine.

Removing the sealed hex cap exposes a machined cavity recessed into the raised boss. Held captive within this machined cavity is a tube seal/wiper and a brass gland bushing. This presents a very clean and well defined access hole for inserting a ¼" OD sampling tube directly into the interior of the machine. The backside configuration of the PSV and the natural curl of plastic tubing directs the oil sampling tube downward and into the lube oil. When the oil sample has been drawn, the sampling tube can be extracted. The tube seal/wiper strips the outside surface of the plastic tubing clean of any residual lubricating oil. Oil sampling is now a safe and clean procedure, even in dirty workplace conditions. When the hex cap is replaced, the integrity of the machine is restored, and completely sealed against outside contamination getting inside and inside lubricating oil getting outside.



The fundamental premise behind PT technology is in the recognition that drawing an oil sample from rotating lubricated machinery is, and will remain, a necessary and indispensable maintenance procedure for extending the life and reliability of lubricated machinery.

### The Proof is in The Details

An article by the Noria Corporation provided hard evidence in support of an expanded oil sampling program.

A two year study by a mining division of J.R. Simplot Company was initiated to monitor and control contamination levels in lubricating oils. The mandate was to extend the life of the lubricating oils used in differentials, final drives and hydraulic systems from 2,000 hours to 6,000 hours.

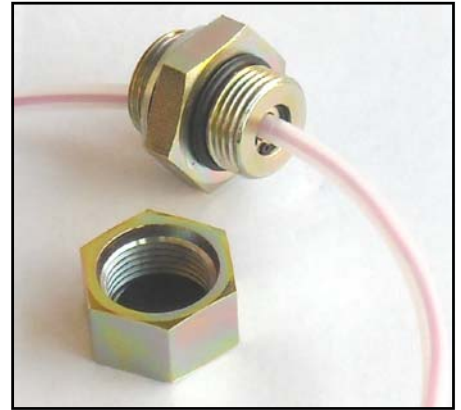
To this end, the program called for all the mine’s mobile equipment to be inspected, including oil samples drawn, and analyzed every 500 hours.

Following this regimen, the average final drive life cycle at this mine site is now up to 12,917 hours; up 42% from the pre-study average life cycle of 9,116 hours before a rebuild.

Since the program began, mine personnel calculate that the company has saved over 22,000 dollars on new oil purchases alone, and without factoring in manpower and a host of other associated costs, which can amount to several times the actual new oil cost.

(Sharon Dory, J.R. Simplot Company Teresa Hansen, Noria Corporation  
Tags:contamination control : Practicing Oil Analysis 7/2003)





**OEM REPLACEMENT PARTS**

JLM Systems adds Pass-Thru Technology to our family of Severe Duty oil Plugs & Sampling Valves

In heavy, mining and off-road equipment many OEM oil fill plugs are at or just above the inside oil level. Conventional oil sampling valves including OILMISER™ severe duty plugs, must be below the oil level. To draw an oil sample, the OEM plug has to be removed and a 1/4" OD plastic sampling tube connected to a hand held vacuum pump inserted into the open port. Such a procedure is too risky and too time consuming to be practical in this fast paced work place.



Patent Pending

The new OILMISER™ PSV-PT oil sampling plug with its low profile rugged construction, replaces the original OEM oil plug. Removing the steel hex cap exposes a very clean and very well defined access hole for inserting the oil sampling tube directly into the machinery. When the oil sample is complete, the oil sampling tube is drawn back through the inner tube wiper/seal which strips the tube of any residual lube oil. When the hex cap is replaced, the O'ring seal ensures that outside contamination can't get in, and inside lube oil can't get out.



The new PSV-PT is now offered on OILMISER™ OEM replacement inspection covers in addition to our drop tube configuration.

