

## Olstadt, Joseph

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**From:** info@RangerBoats.com  
**Sent:** Wednesday, June 24, 2009 4:25 PM  
**To:** Olstadt, Joseph  
**Subject:** FW: RangerBoats.com - Trailers

**Importance:** High

Joe,

Thank you for your e-mail.

The oil can change color with as little as three drops of water. The milky oil will not hurt anything. The hubs are to be serviced once per year or every 20,000 miles. There are no issues with the hubs. Normal maintenance and they will last another 9 years.

Here' some additional information about COOL Hubs:

### COOL HUBS

Contained Oil Orbital Lubrication (COOL) Hubs feature:

- \* ADDING LUBRICANT - Lubricant is added through threaded port on nose of hub. This allows for easy access and maximum filling of hub cavity with oil.
- \* LUBRICANT - Uses standard 50 weight motor oil.
- \* PRESSURE CONTROL-THERMAL EXPANSION - Hub cavity is completely filled with oil. There is no void which could allow water entry during submersion of trailer in water and cooling of oil.
- \* SEALING - FRONT - Stainless steel barrel is press fit into hub. A seal is used between hub bore and barrel. Double quad-rings on piston riding on a stainless steel surface to help prevent any leakage.
- \* SEALING - REAR - A factory installed stainless steel collar is press fitted and sealed onto spindle. A coated double lip inner hub seal riding on the stainless steel collar keeps pressurized oil in and water out of hub.

If your trailer is equipped with COOL Hubs, the system should be serviced once a year or every 20,000 miles whichever comes first. To do so, simply remove the plug located in the hub nose, rotate the hole to the bottom position to drain the oil, refill the hub completely with approximately 5 oz. of 50 wt, standard (non-synthetic) motor oil and reinstall plug.

Hope this helps. Thanks again and let us know if we can be of further assistance.

Sincerely,

Greg Marler  
Ranger Boats

-----Original Message-----

From: System@genmarboats.com [mailto:System@genmarboats.com]  
Sent: Tuesday, June 23, 2009 6:54 PM  
To: Ranger Information  
Subject: RangerBoats.com - Trailers

First Name: Joe  
Last Name: Olstadt  
Address:  
City:  
State:  
Postal Code:

Phone Number: --

Email: joseph.olstadt@xerox.com

Category: Trailers

Serial Number:

Message:

I have a 2000 681vs on a ranger trail trailer with the cool hubs. I noticed the oil in the hub on one side has turned a milky white. I know that means water intrusion. Is it safe to trailer the boat this way, or do I need to service the hubs? Is there a known issue with these hubs?

Thanks!