

Noise from fuel tank when 1/2 full

Topic number	LI47.10-P-079604
Version	1
Function group	47.10 - Fuel tank
Date	8/15/25
Validity	Model series 214/206 with gasoline engines
Reason for change	

Complaint

Audible "slurping" operating noise from the fuel tank

Cause

Conditions:

- The fuel tank is around half full
- The secondary chamber is almost empty. The suction jet pump suctions up small quantities of fuel and air. This results in vibrations and turbulence, which make noises. These noises may sound like slurping. The fuel pump and the drained secondary chamber amplify certain noises which can be loud or shrill. The viscosity of the fuel and the intensity of the fuel pump also impact the noises.
- The fuel level is in the area of the saddle overflow in the primary chamber. The fuel mixed with air flows back into the secondary chamber. The noises may therefore be audible for longer
- If the primary chamber is no longer in the area of the saddle overflow, the noises should disappear because the secondary chamber no longer receives fuel.
- The area of the saddle overflow in the primary chamber is around +/- 2 liters of fuel volume (fuel gauge shows around half full).

Attachments	
File	Description
Grafik Arbeitsgeräusch Saugstrahlpumpe_Grafik working noise suction jet pump_V1.pdf	

Remedy

- Refill/drain approx. 5 liters of fuel; if the noise is reduced/is no longer present due to this, the circumstance specified above is present

Further measures may cause a reduction in noises in the specified area:

- In isolated cases, a fuel tank installed under stress may amplify the noises. The installation position of the fuel tank and the contact surfaces on the body-in-white should be checked here. To do so, release the fuel tank and refasten it, see WIS.

XENTRY Tips

- Replacement of component parts such as fuel tank/delivery module does not provide a remedy!

If a similar noise is heard, but the tank volume is 3/4 or 1/4 and not 1/2 as described above, another circumstance is present

WIS-References		
Document number	Title	Note
AR47.10-P-4100MRV	Remove/install fuel tank	Do not replace any component part, refasten as required

Disclaimer

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Symptoms
Power generation > Fuel system > Noises > Steam bubbles hissing noise
Power generation > Fuel system > Fuel pump > Noise
Power generation > Fuel system > Fuel tank > Noises > Whistles

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note