

SB-LWS-2025-07 Rev. A - Gearbox oil viscosity grade change for LT-32 CCV turbines

Service bulletin issued by Litware Wind Systems on 2025-03-14.

Field	Value
Bulletin number	SB-LWS-2025-07
Revision	A
Issue date	2025-03-14
Category	Recommended; mandatory to keep the gearbox warranty
Applies to	LT-32 turbines delivered in CCV configuration with Fabrikam FGT-3200 gearboxes (all serial numbers), and LT-32 standard turbines at sites where the ambient temperature regularly falls below -20 °C
Affected document	LWS-MM-GBX-32 Rev. D, section 4.2 (lubrication)
Compliance	At the next scheduled oil change and no later than 2025-12-31

1. Reason

Field reports from cold sites show long heating times before start-up (more than 6 hours at -25 °C ambient) and filter bypass events with ISO VG 320 oil. A lower viscosity grade shortens the start-up time and keeps the filter element in service.

2. Change

This bulletin amends the lubricant specification in section 4.2 of LWS-MM-GBX-32 Rev. D for the turbines listed under 'Applies to':

Item	LWS-MM-GBX-32 Rev. D	After this bulletin
Gear oil	Proseware PWG 320	Proseware PWG 220
Viscosity grade	ISO VG 320	ISO VG 220
Total oil volume	410 L	410 L (unchanged)
Minimum oil sump temperature before start-up	+10 °C	+5 °C
Warning A2101 / trip A2102	75 °C / 82 °C	75 °C / 82 °C (unchanged)

3. Instructions

1. Stop the turbine and isolate the drivetrain according to the site lockout procedure.
2. Drain the PWG 320 at an oil temperature between 40 and 60 °C.
3. Replace the oil filter element FGT-P-11872.
4. Flush the gearbox with 60 L of PWG 220: fill, run the electric oil pump for 30 minutes, then drain.
5. Fill with 410 L of PWG 220 through a filter cart with a 10 micron element.
6. The residual PWG 320 after flushing must not exceed 5 % of the total oil volume.
7. Change the controller parameter GBX_TMIN_START from 10 to 5 °C.
8. Label the gearbox filler 'PWG 220' with the label kit supplied.
9. Take a reference oil sample after 24 hours of operation.

4. Parts and labour

Item	Quantity per turbine
Proseware PWG 220 (60 L flush + 410 L fill)	470 L
Oil filter element FGT-P-11872	1
Label kit 'PWG 220'	1
Labour	2 technicians, about 6 hours

5. Reporting

Return the completion form (annex B) to Litware Wind Systems within 30 days of each conversion. Conversions made according to this bulletin keep the gearbox warranty valid.

Annex B - Completion form

Field	Entry
Turbine serial number	
Gearbox serial number	
Conversion date	
PWG 220 batch number	
Estimated residual PWG 320 (%)	
Technician name and signature	