Everllence

Service Letter

SL2025-779/IMNI

Two-stroke

Copenhagen, December 2025

Action code: WHEN CONVENIENT

Maintenance and testing of Alpha cylinder lubricator

Concerns

Owners and operators of Everllence B&W two-stroke marine combustion engines.
Type: ME-C, ME-B and MC-C

Summary

This Service Letter outlines updated procedures for testing and maintaining the Everllence B&W Alpha cylinder lubricator to ensure compliance with Everllence standards.

The Alpha cylinder lubricator is a proven, high-quality product with a long track record of reliable performance. To ensure that this reliability translates into sustained engine performance and good cylinder condition, we strongly recommend conducting a flow test according to Everllence's standardised procedure using our cylinder lubricator test rig at a certified workshop.

This Service Letter builds on previous communications – SL2016-632, which introduced service and maintenance kits, and SL2023-744, which outlined guiding overhaul intervals – to provide detailed service kit implementation and alignment of historical engine data with global customer reports from certified Everllence workshops.

Contact details

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References

SL2016-632, SL2023-744, Service letters, 3065-0601 Work Card

Fig. 1: Alpha cylinder lubricator

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Maintenance and testing of Alpha cylinder lubricator

Introduction
In line with Everllence standards, cylinder lubricators must be tested and overhauled every five years or 32,000 running hours. With the shift to low-sulphur fuels and dual-fuel engines, precise lubrication has become more important. Each injection must deliver the correct volume of cylinder lubricating oil to maintain a good cylinder condition and ensure smooth operation of internal components (cylinder liner, piston, and piston rings). To ensure that the Alpha lubricator is working properly, it is therefore recommended to conduct a flow test every 32.000 running hours at an Everllence authorised workshop.

Maintenance strategy
Our strategy remains based on service experience and recommended overhaul intervals. Service and maintenance kits are used for routine maintenance, including parts replacement every five years or 32,000 running hours, as outlined in SL2023-744.

Key focus areas for procedure updates using a lubricator test rig

1. Promoting sustainability by reusing existing cylinder lubricators
2. Standardising test procedures
3. Optimising measurement methods

Implementation approach

- Operational testing using a lubricator test rig (Fig. 2), including:
  - Standard overhaul
  - Flow and leakage tests according to Everllence standards
  - Improved measurement of lubricating oil output
  - Collection of test data to improve traceability and transparency in maintenance and parts usage
- Report alignment: Global standardised reporting (Figs. 3 and 4)

Fig. 2: Alpha lubricator in test rig

Benefits

✓ Verified lubricating oil output at individual injection points and calculation of the total volume (Fig. 3)

✓ Reduced risk of cylinder liner damage due to insufficient lubrication

Please fill data in white fields | MAINTENANCE LUBRICATOR | Everllence

3. Ship Info

3.1: Vessel name:	Dummy vessel for test	3.2: IMO no.:	1234567	3.3: Eng. Builder:	KVC	3.4: Produc…	1111111-7
3.5: No. of cylinders:	7	3.6: Eng. Type:	G80ME-C9.5-HPSCR	3.7: Alpha Lub. varia…		3.8: Eng. runnin…	35550
3.9: Date (yyyy-mm-dd):	2025-12-04	3.9 Data source:	PrimeServ China: Shanghai	Engine no.:	5678		
3. 10: Measured by:	EDQF8FB	3.11: TRUST or serial no:	4567-31	3:12: Archived by:	EDQF8FB		

LUBRICATOR - SERVICE

4. Lubricator: Service before volume test

X	4.1: Accumulator pressure 1.5 bar - size 0,16L (present only …	X	4.4: Main piston and spring inspection	X	4.7: Solenoid valve	X	4.9: Assembly with O-rings
X	4.2: Accumulator pressure 30 bar - size 0,7L (present only for MC)	X	4.5: Actuator piston	X	4.8: Piston movement test	X	4.10: Bolt tighten
X	4.3: Change counter valves (5 bar)	X	4.6: Feed-back sensor				

5. Data collection for volume test

4	5.1 Numbers of plunger …	3.0	5.2 Plunger diameter (Ø-mm)…	14.0
Piston volume/stroke (ml)	0.1	Calculated target volume (ml)	70	

6. Non-return valve low pressure test in flow direction (4,5 bar)

First low pressure test		No leak in 1 min. pressuered condition		Second low pressure test		No leak in 1 min. pressuered condition	
X	6.1 Non-return valve - Low pressue test in flow direction (4…	No leak detected			6.2 Counter valve - Low pressue test in flow direction (4,5 bar)		

7. Non-return valve high pressure test seat direction (40 bar)

First high pressure test		No leak in 1 min. pressuered condition		Second high pressure test		No leak in 1 min. pressuered condition	
X	7.1 Non-return valve - High pressue test	No leak detected			7.2 Non-return valve - High pressue test		

8. Piston volume/flow out-put test

	Piston number	8.1 Cylinder Vol. (ml) #1-5	Measure result GO/NOGO Upper tolerance	Measure result GO/NOGO Lower tolerance	Piston number	8.1 Cylinder Vol. (ml) # 6-10	Measure result GO/NOGO Upper tolerance	Measure result GO/NOGO Lower tolerance
X	#1	70.0	GO	GO	#6			
X	#2	68.0	GO	GO	#7			
X	#3	69.0	GO	GO	#8			
X	#4	70.0	GO	GO	#9			
	#5				#10			

Measured efficiency total volume supply (%) | 98.93

9. Service and repair note

NO.	Description
N.4.1	Text testing 35

10. Service and repair parts used

NO.	Quantity	Designation	Plate number
N.4.1	1	Text testing 35	111-222-333

Remarks:	Estimated main engine running hours			
Contact:	Kim Nielsen	E-Mail:	EOS-CylCon@everllence.com	Rev: 20250721_D…

Fig. 3: Example report, including verification of lubricating oil output volume

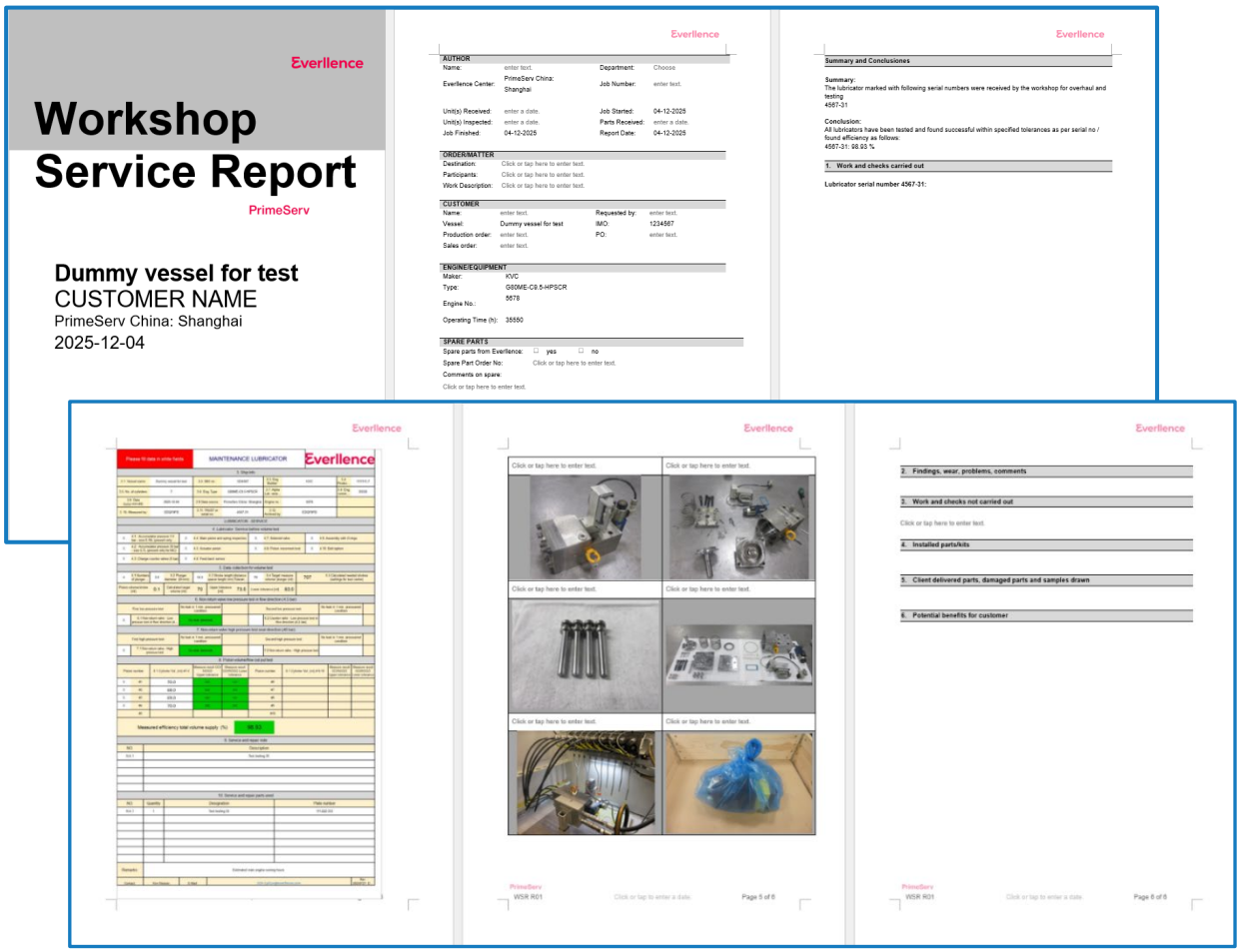

Fig. 4: Customer service report

Currently, Everllence PrimeServ hubs equipped with lubricator test rigs are: PrimeServ Frederikshavn, PrimeServ Netherlands, PrimeServ Türkiye, PrimeServ Greece, PrimeServ China, Shanghai, PrimeServ Portugal, PrimeServ Singapore, and PrimeServ Los Angeles.

If you have any questions to this Service Letter, contact DT-CPH@everllence.com

Yours sincerely,

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Head of Everllence PrimeServ

Jeppe Poulsgaard
Head of Technical Service