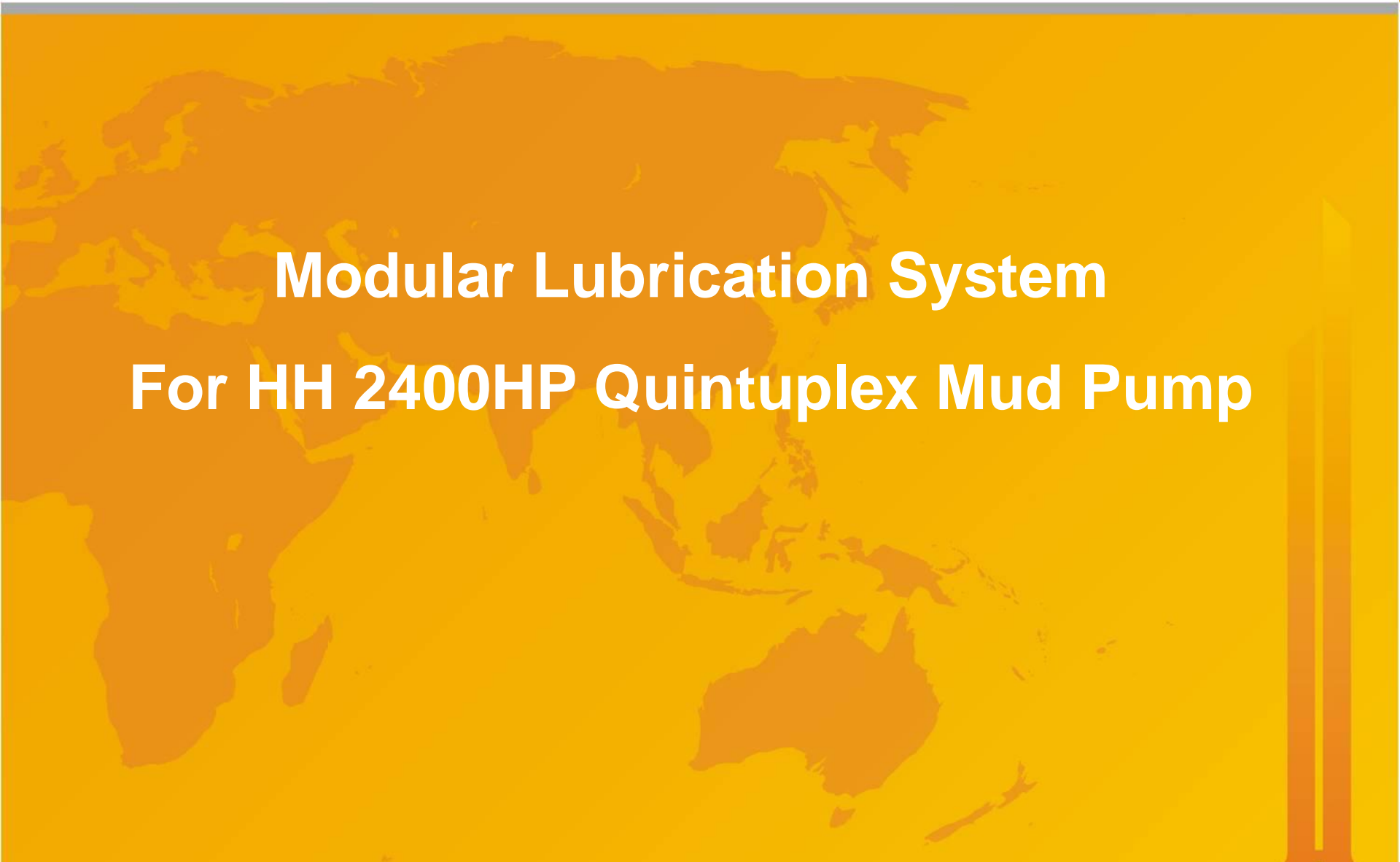


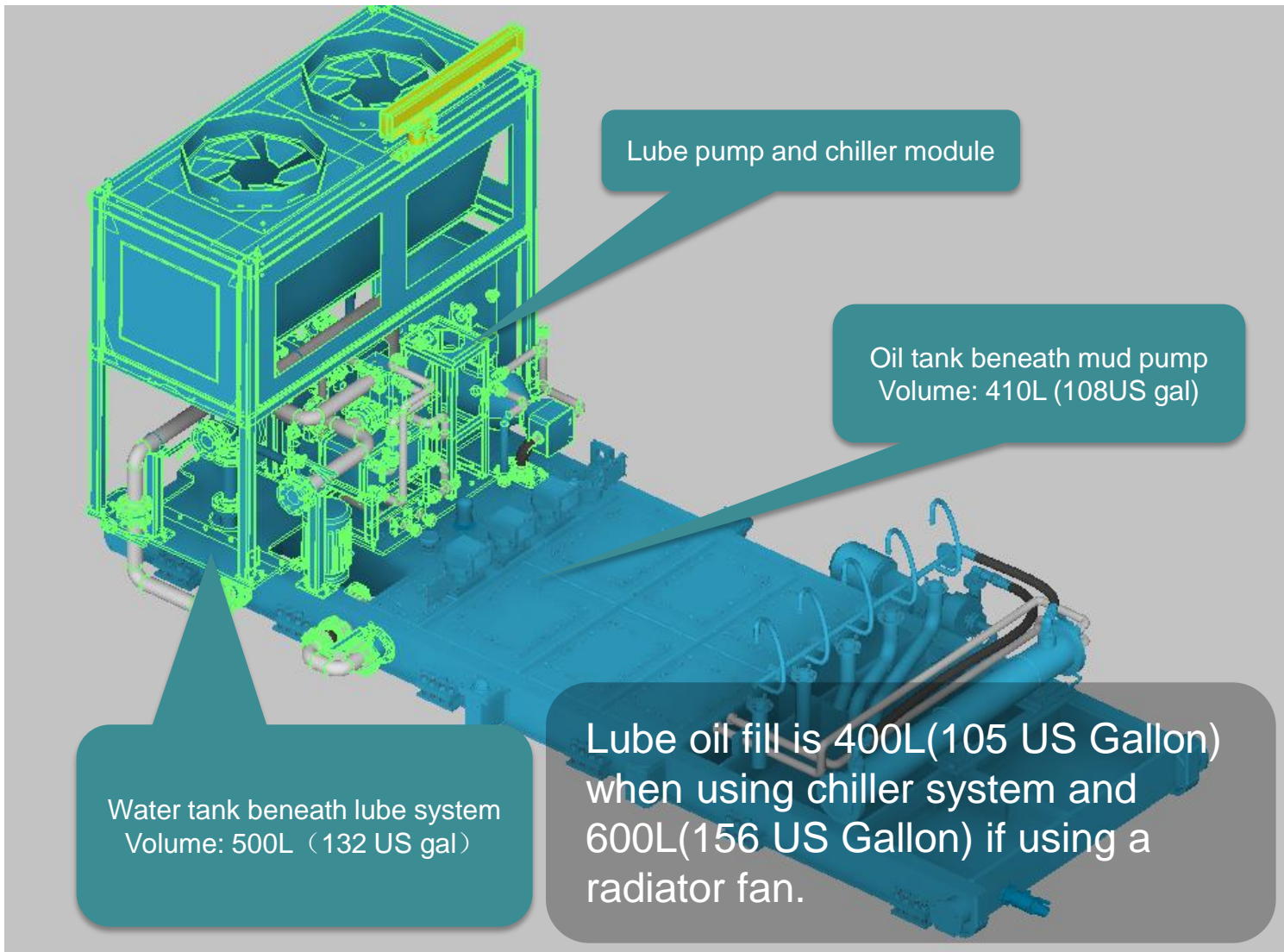


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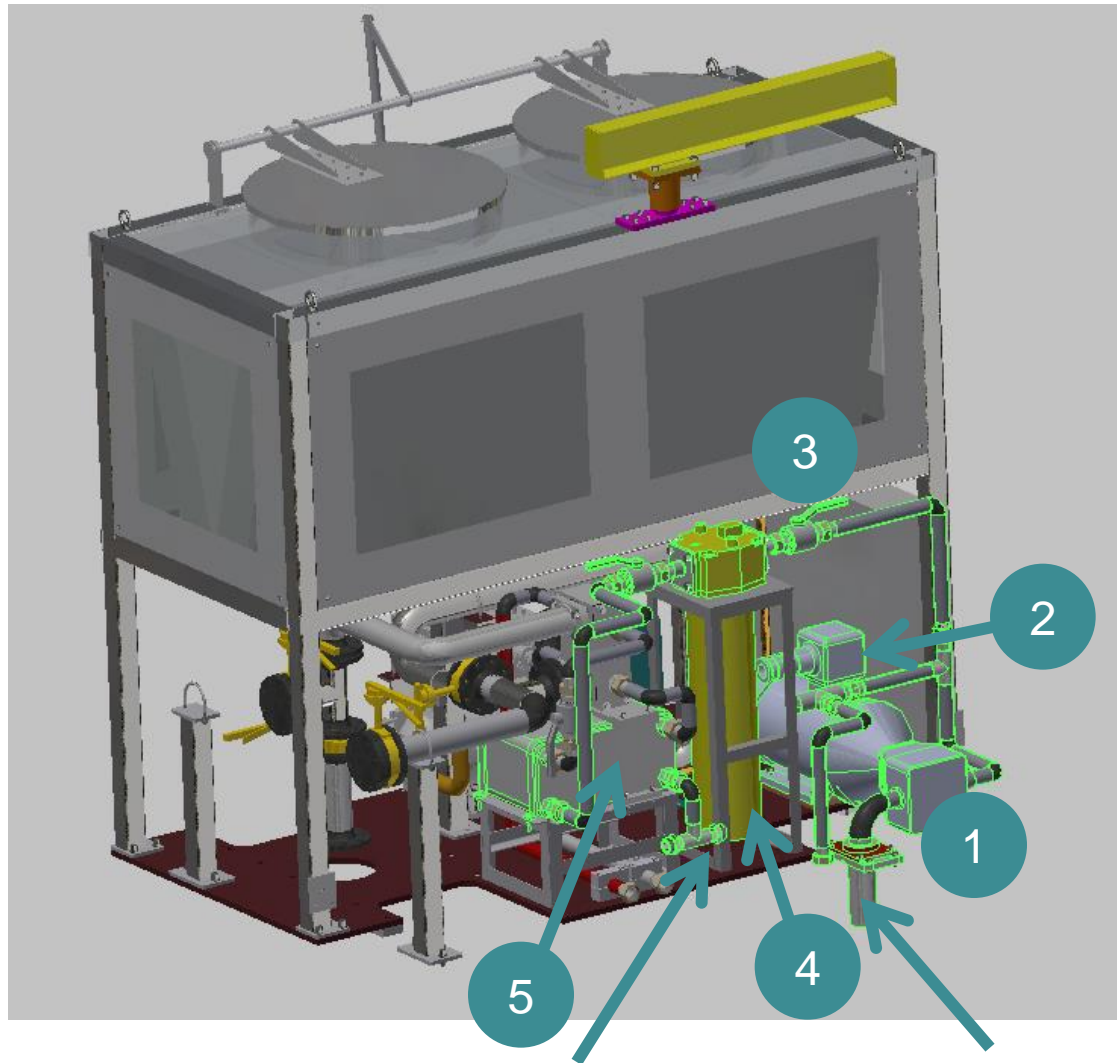
A faint, light-colored world map is visible in the background of the slide, centered behind the text.

**Modular Lubrication System
For HH 2400HP Quintuplex Mud Pump**

OVERVIEW



LUBE OIL CIRCULATION SYSTEM



Lube Oil Out

Lube Oil In

1. Lube Oil Pump

Make: Viking

Model: SG-1420-G00

Nominal GPM:

58@50Hz; 70@60Hz

Nominal RPM:

1450@50Hz; 1750@60Hz

Max. Continuous Pressure:

500 psi

2. Over-flow valve

3. Ball Valve

4. Filtration Unit

Make: HYDAC

Model: WUI-A1000×800FP

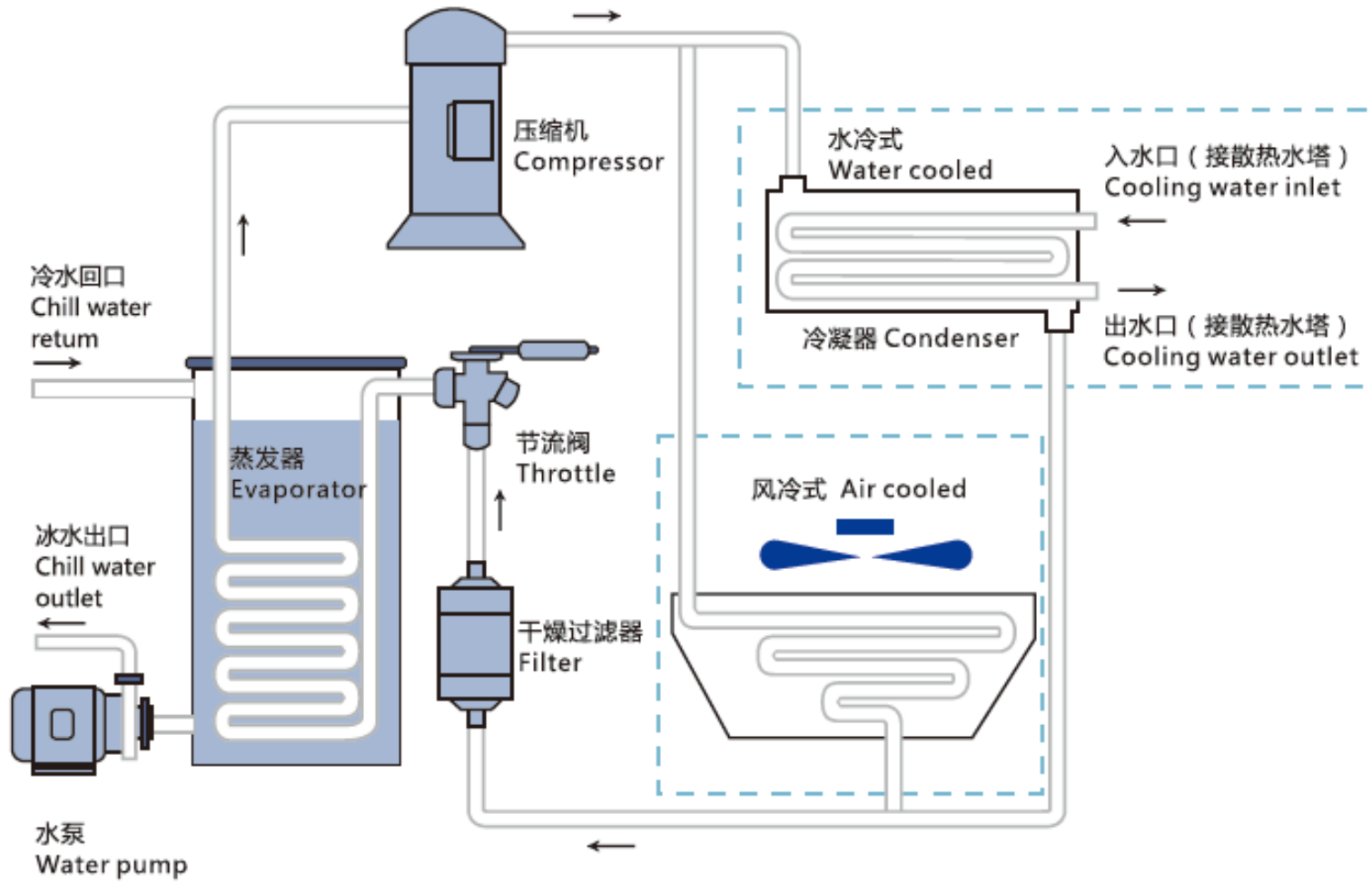
5. Plate Heat Exchanger

Make: HYDAC

Model: HEX-S522-70-00/G1 ½

LUBE OIL CIRCULATION SYSTEM

Chiller Circulating Flow Chart



FAN COOLING SYSTEM TEST SCHEDULE - DRAFT

Preparation 4 weeks

- Calculation, piping, model selection
- Design and test plan review
- Purchasing/ Borrowing radiator and SHC632 lube oil
- Disassembling previous cooling system and install new one.
- Install pump into a test stand
- Pre-test commissioning

Test 48-72 Hrs

- Phase 1 Test w/o Load
 - 4" Liner, 80SPM, 0Mpa, 0.5hr
 - 4" Liner, 150SPM, 0Mpa, 0.5hr
- Phase 2 Test with Load
 - 4" Liner, 80SPM, 5Mpa, 0.5hr
 - 4" Liner, 100SPM, 20Mpa, 0.5hr
 - 4" Liner, 120SPM, 35Mpa, 1hr
 - 4" Liner, 140SPM, 45Mpa, 1hr
 - 4" Liner, 150SPM, 51.7Mpa, 48hrs

Terminate test if failure occurs
Take oil sample during test
Pump readings recorded by PLC

Post-test Inspection 1 Week

- Check following and compare with factory readings,
 - Bearing clearance
 - Gear clearance
 - Pony rod alignment
 - Connection rod and sleeve opening
 - Crosshead slide clearance
 - Crosshead and slide surface scratches
 - Crank shaft journal wear and roughness
 - Crosshead pin dimension and surface roughness
 - Oil sample analysis
 - Meetings and reports



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A stylized world map is centered on the page, rendered in a dark orange color against a lighter orange background. The map shows the outlines of continents and major landmasses.

THANKS