

## RD-BOE 200气缸油调和装置

### Blending Oil Equipment

#### 概述

RD-BOE 200是一种将主机基础油和添加剂按设定的比例混合调和成为主机气缸油的装置。该系统用泵吸入基础油和添加剂,然后循环混合成同质的汽缸油。所有功能由嵌入式计算机控制。

操作员可以输入基础油和添加剂的BN值,并且输入所需调和油的BN值,计算机将自动计算并改变掺合比。

搅拌器是一个“罐筒”容器,可容纳约200升调和油。“罐筒”坐落在3个重量传感器上,搅拌器配备一个工作油泵,用于基础油和添加剂的吸入、循环、排放,所有控制电磁阀的启闭和管路流向均由计算机控制。

重量传感器向计算机提供何时达到系统规定的油量,计算机将确保正确的添加剂数量也注入“罐筒”混合。当基础油和添加剂充分混合后,油泵将排空罐内气缸油并开始下一个混合。该系统可以运行自动、半自动及手动三种模式。



#### 技术参数

- 混合容积: 200L(一次混合)
- 油泵排量: 70L/min
- 电机功率: 1.5kW
- 供电电压: 380V/50Hz, 440V/60Hz
- 供气压力:  $\geq 0.65\text{MPa}$
- 显示精度: 0.01kg

#### Summary

The RD-BOE 200 Blending Oil Equipment is a blending base oil and additive to obtain Main Engine Cylinder Oil at a specified ratio. The system used a pump to making suction from the base oil and additive tanks, and will circulate mixed these oil for homogeneous cylinder oil. All functions are controlled by a Embedded computer.

The operator can enter the BN value of base oil and additive, and input the BN value of blending oil. Then, the computer will automatically calculate and change the blend ratio.

The Blender is a cylinder-drum container, containing about 200L base oil. The cylinder-drum is equipped with 3pieces of weight sensors. And, the blender includes a pump which is used to pump, cycle and discharge for base oil and additive. Computer control the open and close for all of solenoid valve in order to control the liquid flow in pipeline.

The weight sensors will give the computer information about when the base oil amount is as prescribed by the system, and they will ensure that the correct additive amount is also pumped into the "drum" and mixed in the "drum". When the base oil and additive is sufficiently mixed the pump will empty Cylinder Oil in the drum and are ready to start next blend batch.

#### Tech. Spec.

- Mix volume: 200L (one times)
- Pump displacement: 70L/min
- Motor power: 1.5kW
- Service voltage: 380V/50Hz, 440V/60Hz
- Air pressure:  $\geq 0.65\text{MPa}$
- Display accuracy: 0.01kg

