

REPORT

This Report has been drawn up on that, according to contract No. 2 of 04.07.01, PKP "Serna" has performed treatment during operation with reconditioning compounds to XADO technology of engine 6CH 18/22 installed on z/s DN "Ye. Kolodochka".

The treatment results were as follows:

| Parameter | Prior to treatment | After treatment (100 hrs) | After treatment (500 hrs) |
|---|--------------------|---------------------------|---------------------------|
| Oil pressure at $t = 65\text{ }^{\circ}\text{C}$, 750 rpm, (kg/cm^2) | 2.8 | 3.4 | 3.4 |
| Engine operating time with 3.5 liters of fuel at 750 rpm under load to a generator, (sec) | 492 | 528 | 557 |
| Fuel consumption under load conditions, (kg/hr) | 21.5 | 20.04 | 19.0 |
| Pressure in cylinders, (kg/cm^2) | | | |
| 1 | 24.3 | 26.0 | 29.0 |
| 2 | 24.0 | 26.0 | 30.0 |
| 3 | 24.3 | 28.0 | 31.0 |
| 4 | 24.8 | 28.0 | 31.0 |
| 5 | 22.6 | 24.0 | 31.0 |
| 6 | 24.0 | 24.0 | 30.0 |

After treatment, the parameters were measured after 100 and 500 hours of engine operation.

Engine noise and vibration decreased, and engine start-up improved.

The results of applying the XADO technology to renewing marine engines during their operation, instead of conventional renewal, can be deemed positive.

Chief of Ship Maintenance Service

Bil'chuk A.Ye.

Manager of Implementation Dept.
of PKP "Serna"

Tomoshenkov V.Z.