

Visual inspection. With SulNOx EcoConditioner and without.

Two Caterpillar 18-cylinder 3500 marine propulsion engines were run side by side for a period of four months. Both engines were running with marine gas oil but only one engine running an evaluation using SulNOx EcoConditioner.

This is a comparison of the engine piston / liners after the engine was given a complete overhaul following the evaluation. On the left are the pistons and liners treated with SulNOx EcoConditioner. On the right are the pistons from the non-treated pistons & Liners.

Figures 1 and 2 show the build-up of carbon deposits on the right-hand piston heads without SulNOx. Whereas the left-hand Figure 3 (with SulNOx) is notably cleaner.



Figure 1. With SulNOx



Figure 2. Without SulNOx

Carbon deposits were also reduced around the sealing rings on the piston. The rings are distinguishable in Figure 3 (with SulNOx) but appear notably blacker and less discrete in Figure 4 (without SulNOx).



Figure 3. With SulNOx.



Figure 4. Without SulNOx.



Figure 5. With SulNOx



Figure 6. Without SulNOx

Figures 5 and 6 demonstrate the reduction of carbon deposits on the bottom of the pistons. Figure 5 (with SulNOx) there is visibly less carbon compared to Figure 6 (without SulNOx).

The differences are clear and conclusive. The added detergency, lubricity and cleaning effects of SulNOx EcoConditioner have been demonstrated to remove and prevent the build-up of carbon deposits in engines. The health of the engine with SulNOx EcoConditioner has also dramatically improved compared to the one without. Increased power output and torque were recorded per litre of fuel (Figure 7)

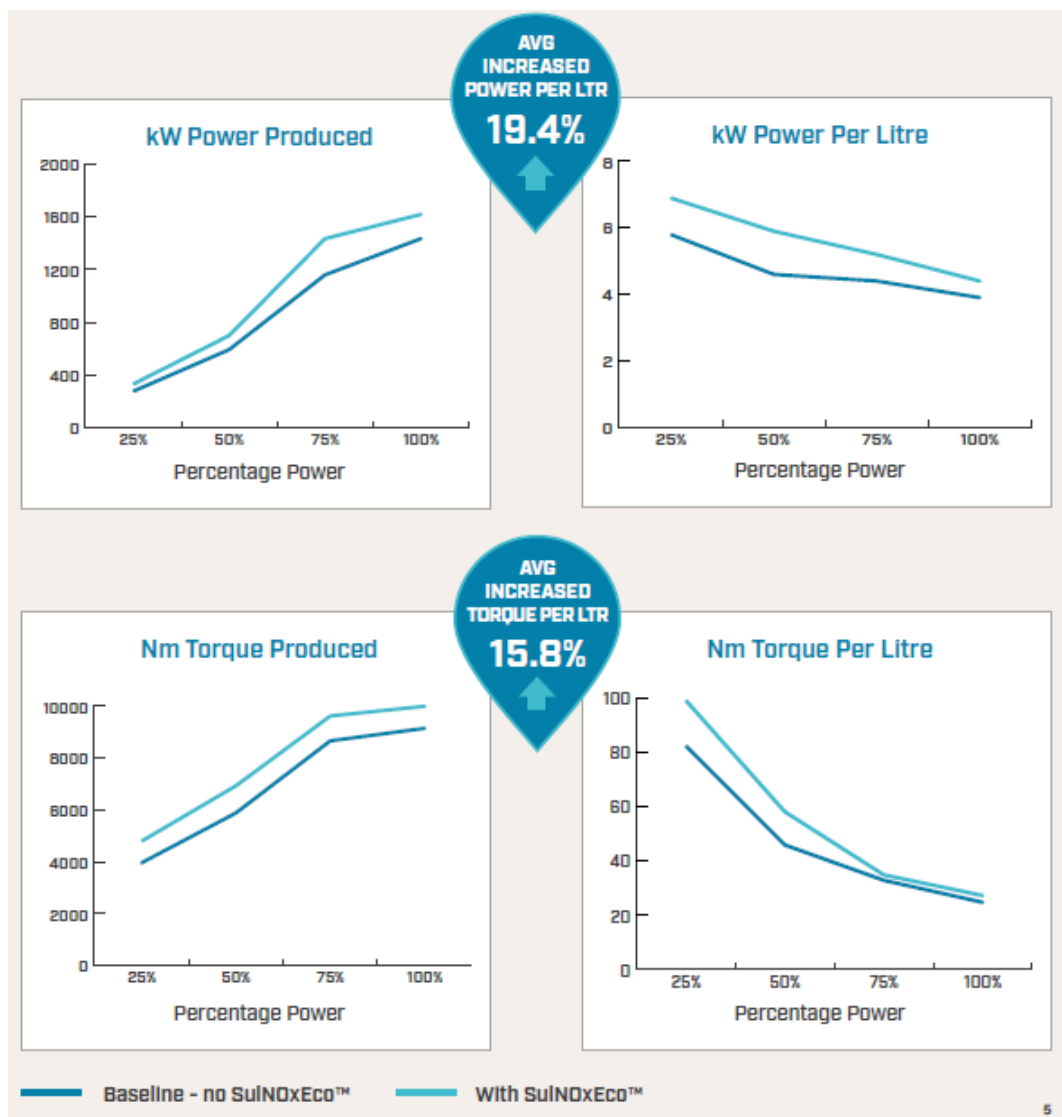


Figure 7. Power and Torque improvements per litre of fuel.

Adopting SulNOx EcoConditioner is easy. There is no CAPEX barrier to begin using it, no specialist training required, and an immediate and tangible benefits offer immediate returns.

The benefits for using SulNOx EcoConditioner are undeniable.