

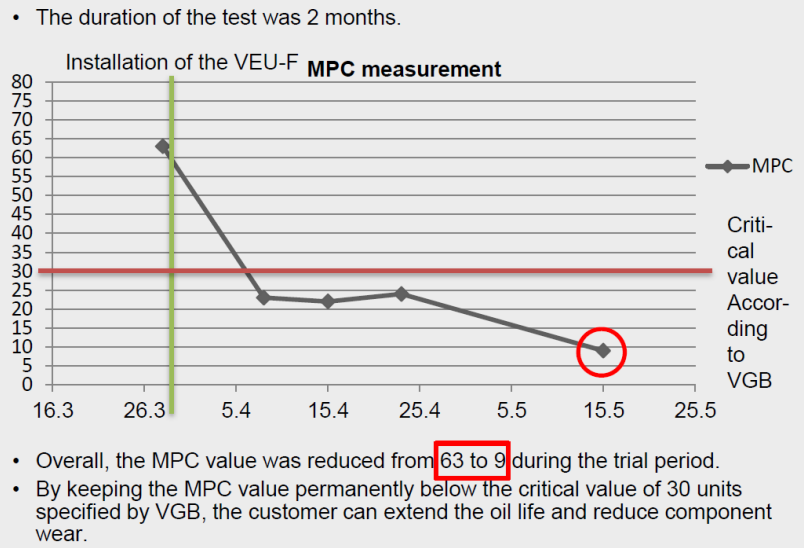


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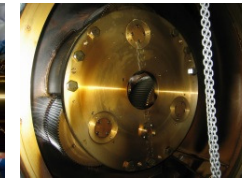
Filter Technology Area / 過濾科技領域

Varnish Elimination Filtration Unit VEU-F / 油泥消除單元

HYDAC Filter-technik



Coupling sleeve



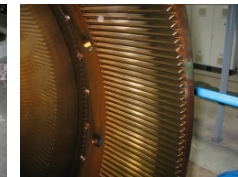
Gear, planetary stage



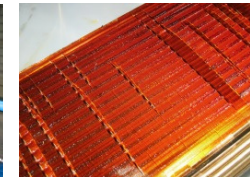
Turbine radial & axial bearing



Emergency oil pump

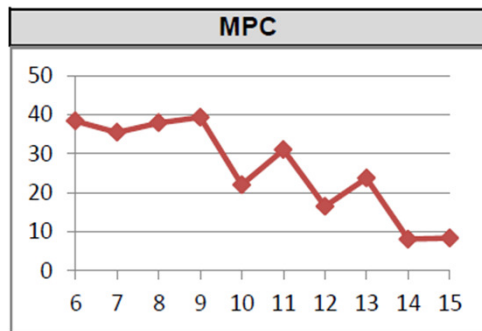


Gear teeth



Oil cooler fins (on oil side)

MPC 40

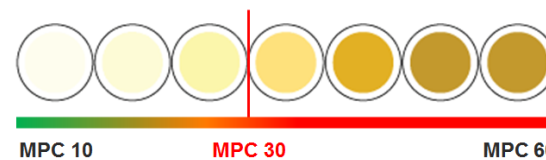


MPC 10



Membrane Patch Colorimetry

- Color measurement of a filter membrane of 0.45µm
→ The higher the MPC index, the greater the change in color





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Varnish Elimination Filtration Unit VEU-F

油泥消除單元VEU-F，系統不當機，節省維修成本



Oil consumption: 10,000 litre	Oil service life without VEU	Oil service life with VEU
Change interval	6 years	10 years
Oil consumption per year	1,666 litre	1,000 litre

Costs per year (€)	Without VEU	With VEU	Saving
New oil	4,165 €	2,500 €	1,665 €
Disposal of old oil	833 €	500 €	333 €
Labour costs, oil change	6,666 €	4,000 €	2,666 €
Additional costs from varnish	6,000 €	0 €	6,000 €
Element cost VEU	0 €	975 €	-975 €
Total*	17,664€	7,975 €	9,689 €

*) Due to the prevention of turbine downtimes and unexpected downtimes caused by varnish, the listed costs can be exceeded many times over. The customer investment is usually amortised much quicker.

