

# Flushing af hydraulik rør og slanger

## Flushing of hydraulic pipes and hoses

Renhed er det absolut vigtigste når vi taler driftssikkerhed og levetid af et hydraulikanlæg. Hos Hydra-Teknik er vi specialister på området. Vores dygtige teknikere har igennem mange års erfaring opbygget stor know-how og ekspertise inden for flushing, oliefiltrering og hvad der skal til for at opnå den renhed vi stræber efter i et hydraulikanlæg.

*A clean hydraulic system is the most important thing when discussing reliability and a long service life. At Hydra-Teknik we consider ourselves specialists regarding flushing of hydraulic systems. Our skilled technicians have through many years of experience gained great know-how and expertise regarding flushing, filtration and what it takes to obtain the purity we strive for in a hydraulic system.*



### Flushing hos Hydra-Teknik:

*Flushing at Hydra-Teknik:*

- **Udføres altid af veluddannet personale.**  
*Performed by skilled people.*
- **Flushing af 10-60 mm rør og slanger.**  
*Flushing of 10-60 mm pipes and hoses.*
- **Dokumentation på renheden efter flushing.**  
*Documentation and calculation of the oil-purity after flushing.*
- **Alle love og regler overholdes som minimum.**  
*All rules and regulations is being followed.*



For at opnå den ønskede renhed i hydraulikanlægget er flushing en meget vigtig proces. Flushing udføres ved ny installation, ombygning/renovering eller efter et havari. Processen kræver specielt udstyr da olie skal skylles igennem rør og slanger, med den korrekte temperatur og fart. Ydermere sendes der trykpulser gennem systemet, hvilket sikrer at får vi alle urenheder ud af systemet. Olien der skylles gennem systemet

bliver filtreret hele tiden og partikeltællinger bliver udført automatisk en gang i minuttet.

Flushing is very important in the process of obtaining the desired purity in the hydraulic system. Flushing is performed when building a new system, rebuild or after a system is damaged. Pipes and hoses must be flushed at a correct temperature and speed, which requires special equipment. Furthermore, pressure pulses are sent through the system, to secure that all the unwanted "dirt" is being removed. The oil that is being flushed through system is being put through a filtration and particle counter unit, which monitor the oil once every minute.

OIL CONDITION														
AR-nr.	Date Sample	Hours	ISO 4406: 1999 >4-6-14 Mikron	SAE AS 4059	Visc 60°C ASTM D 445 cSt	Visc 100°C ASTM D 445 cSt	TAN ASTM D 568 mgKOH/g	Water ASTM D 93M METHOD C ppm						
AR2107254				A-7										
ICP (AES)														
ADDITIVE ELEMENTS (ppm)						WEAR ELEMENTS (ppm)								
AR-nr.	Na	B	Zn	P	Ca	Mg	Si	Fe	Cr	Mo	Al	Cu	Pb	Sn
AR2107254														
<span style="border: 1px solid black; padding: 2px;">Normal</span> <span style="border: 1px solid black; padding: 2px; background-color: yellow;">Caution</span> <span style="border: 1px solid black; padding: 2px; background-color: red;">Critical</span>														

Dette skema viser resultater fra en olieanalyse, taget et år efter idriftsættelse på et anlæg. Hydra-teknik har designet og installeret, efter vores standard og kvalitetskrav.

*This schedule shows the results of an oil analysis being done by Hydra-Teknik. A hydraulic system build and designed by Hydra-Teknik have oil analysis performed once a year to secure the oil-purity of the system, and that we as a company fulfill our own quality standards.*



# HYDRA TEKNIK

QUALIFIED SERVICE AND MAINTENANCE OF HYDRAULIC SYSTEMS

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