

NAV 30 Vacuum Dehydrator

Quick Water Removal with Simple Operation



FAST Fifteen

Give us 15 - we will give you targeted fluid cleanliness concepts for your machine.



Kris Mikulan – Group Product Manager

NAV30 - WHY DO YOU NEED THEM?

Water, particulate and gaseous contamination in fluid systems is a fact of life and needs to be addressed

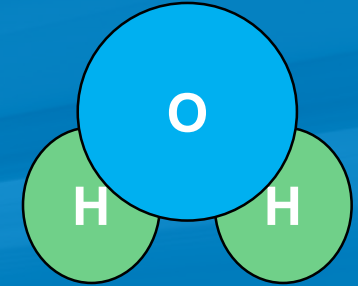
- NAV dehydrators can effectively and efficiently provide very clean (ISO14/12 or better) and very dry oil for the customer's fluid system.
 - will remove 100% of the free water and 80% (or more) of the dissolved water
 - will also remove 100% of the free / entrained air and up to 75% of the dissolved air.
- Can accomplish this without the need for excessive heat or high vacuum
- Can be used on a very wide range of fluids with no adjustments required

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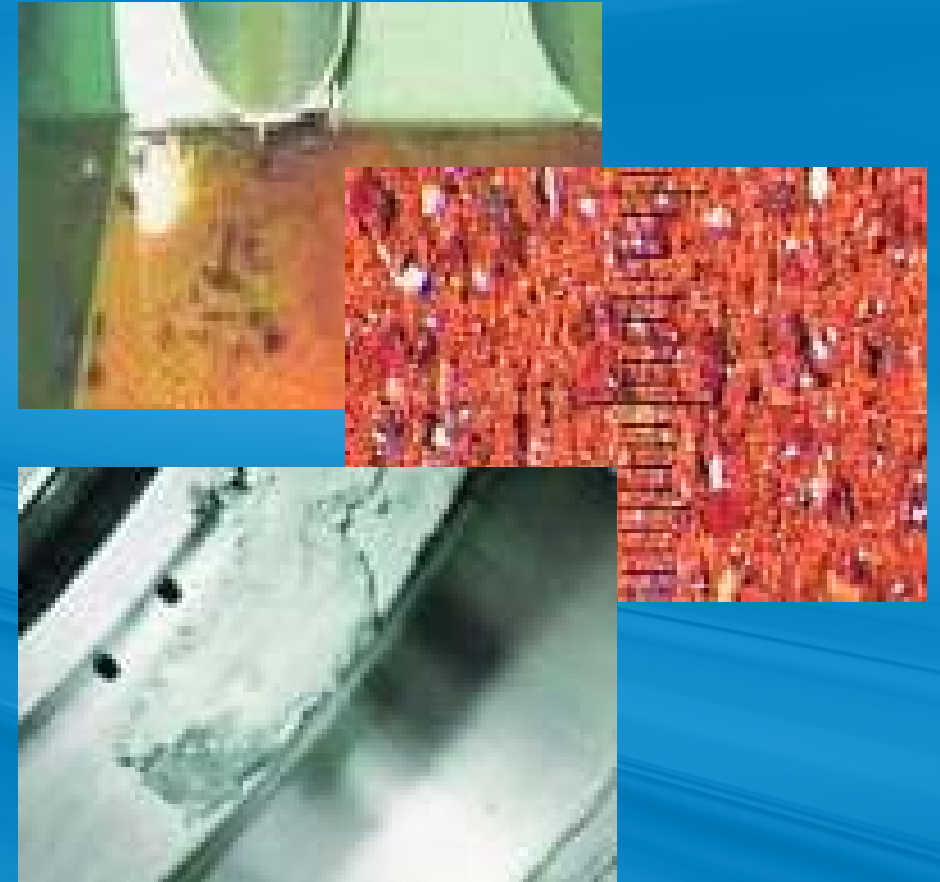
Sources of Water Contamination

- Through system vents
- From coolers and heat exchangers
- Precipitation due to temperature fluctuations
- Introduction of contaminated top off fluid
- Rain in external reservoirs
- Rain leaking into incorrectly stowed barrels
- Wash downs
- Many other routes



Effects of Water Contamination

- Corrosion of component surfaces
- Degradation of fluid performance
- Precipitation of additives
- Oxidation of hydrocarbon fluids
- Deterioration of fluid lubricating properties
- Icing at low temperatures
- Promotion of bacterial growth



Oil Saturation Levels

To minimize the corrosive effects of free water, concentration in oil should be kept as far below the oil saturation level as possible.

Typical Saturation Levels

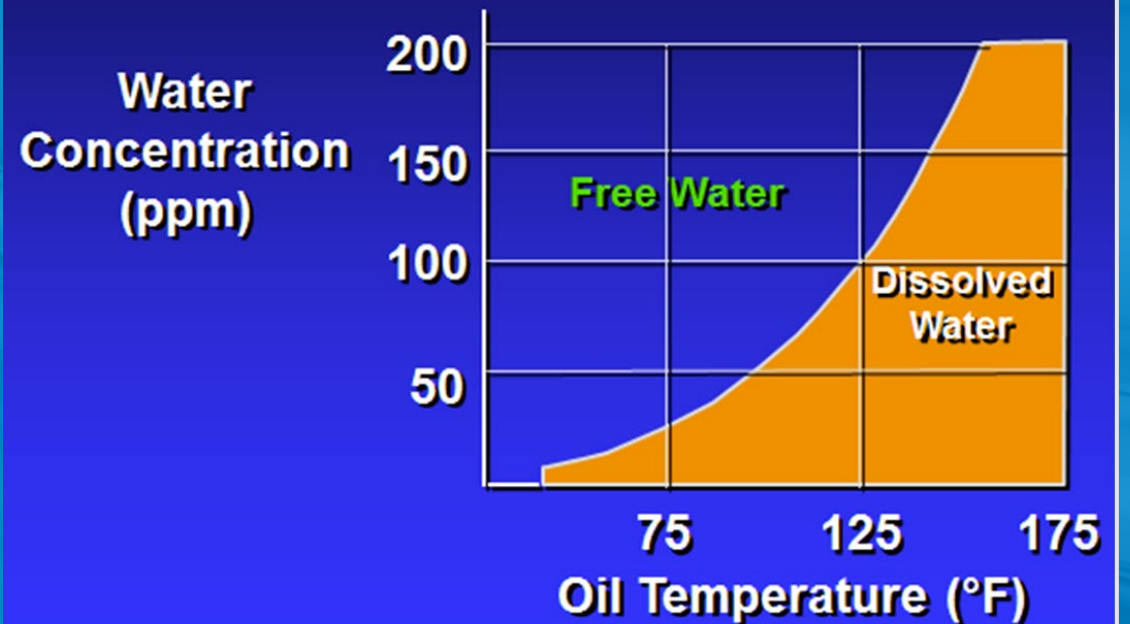
Hydraulic fluid : 200-400 ppm (0.02-0.04%)

Lubrication : 200-750 ppm (0.02-0.075%)

Transformer : 30-50 ppm (0.003%-0.005%)



Oil saturation point is affected by temperature:



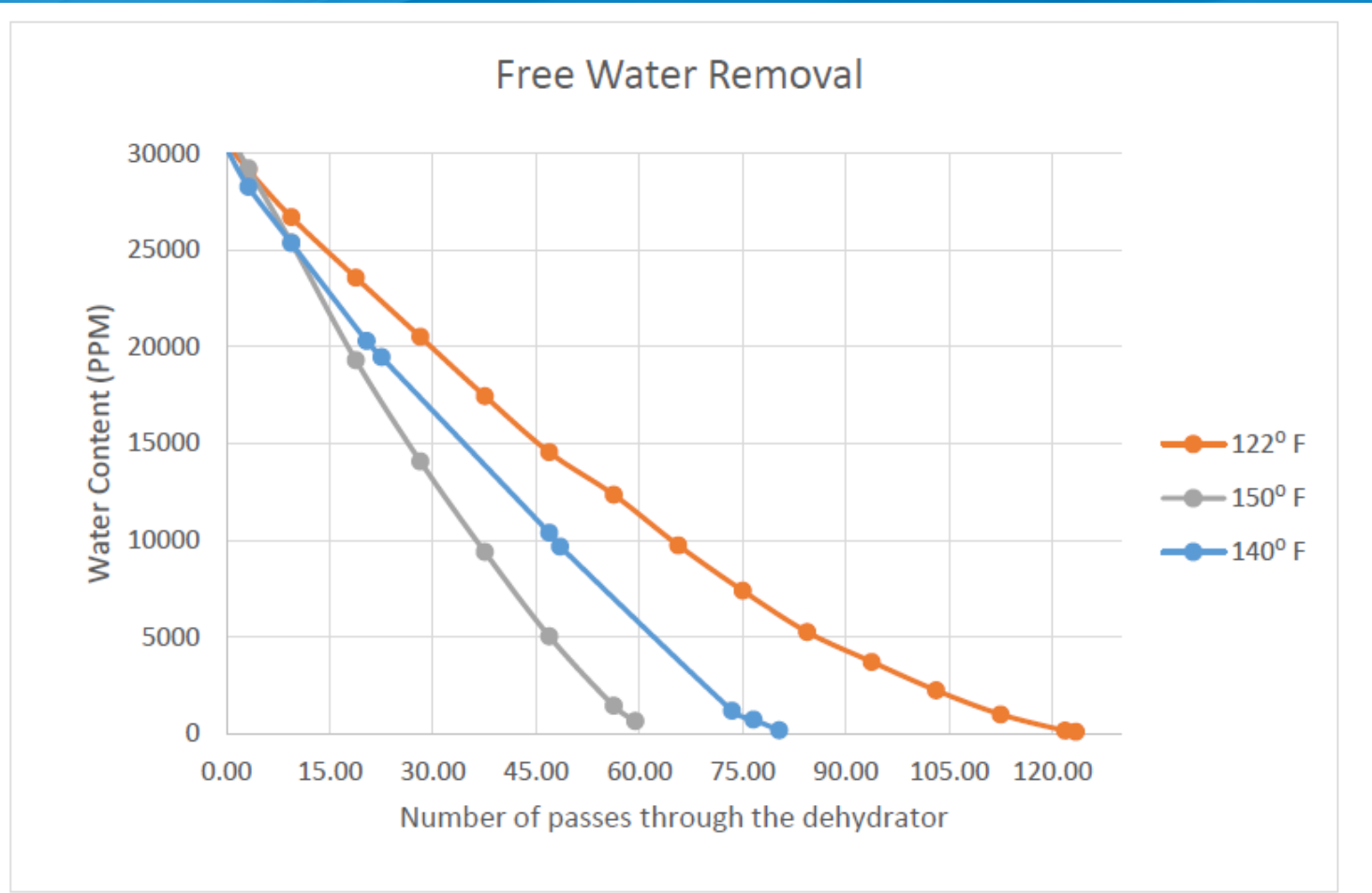
Reference: EPRI CS-4555 Turbine Oil

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Dewatering Results



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Chart#4: Free water removal rates at various oil temp set points.

Interested to learn more?

- Select 1-5 items pertaining to the topic you are interested
- Click the “Request Information” button located directly under the product photo
- Mention “Fast Fifteen” in the comments section and a representative will be in touch

