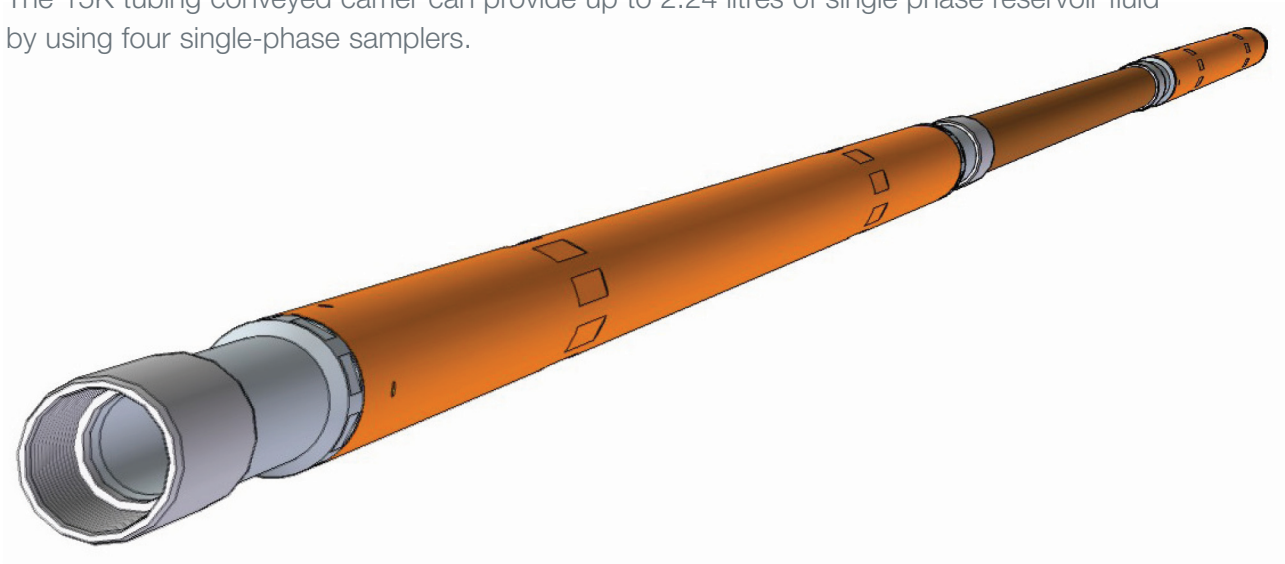


Expro's Petrotech 15K Carrier

Expro's Petrotech's 15K Carrier is a tool for Bottom Hole Sampling of petroleum reservoirs. The 15K tubing conveyed carrier can provide up to 2.24 litres of single phase reservoir fluid by using four single-phase samplers.



Features:

High Pressure & High Temperature

The working pressure and temperature of the Carrier is 15,000 psi @ 400°F (full differential)

Triggered by annulus pressure operated rupture discs

Each sampler can be activated individually and at the operator's chosen time by rupture discs

Non-corrosive

The Carrier and samplers provide service in the most hostile well environments with extreme H₂S levels

Positive displacement operation

A slow positive displacement of the floating piston ensures no pressure differential across the sample entry ports, when using single-phase samplers

Full bore

The carrier ID is full bore 2.25", 23 mm offset.
Max. wireline tool OD: 1.75"

Benefits:

Can be operated in extreme wells with high pressure and temperature without compromising the safety

Activation by individual rupture discs allows the operator to choose the exact time of sampling, and each sampler may be activated individually

The non-reactive material makes the tool excellent for trace element sampling and sampling in highly corrosive hydrocarbon fluids containing CO₂, H₂S and brines. The material of the tool provides insignificant loss of H₂S from the sample

With no requirement for re-establishing single-phase at surface sample transfer is performed rapidly and without jeopardizing the integrity of the sample

No wire-line operations are necessary to collect high quality samples

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Technical Specification:

Sample capacity	2,24 liters (4 x 560cc) single phase
Full-bore	2.25"
OD/ID	5.5"/2.25"
Main internal bore offset	23 mm
Max Temperature	204°C / 400°F
All fluid exposed parts according to	NACE MR-175 / ISO 15156 2003
Max diff pressure-internal	15,000 psi @ 400°F (test pressure: 16,500 psi)
Max diff pressure-external	15,000 psi @ 400°F
Design spec	API
Tensile rating	300,000 lbf @ 400°F and 0 psi
Make up length	61ft with PCS samplers
Make up length	67ft with SPS samplers
Total Weight	1000 kg (PCS tools + pup joint)
End connections	Hydril 4.5" 23.7" lb/ft Type 563