

Well Flow Management

Fluids Sampling and Analysis

Concentric TCS Carrier

Expro's Concentric TCS Carrier is a tool for bottom hole sampling of petroleum reservoirs. It can provide samples of 400cc from 8 sampling tools (PCS MK2) with a total of 3.2l single-phase reservoir fluid.

Features

- **HP/HT:** the working pressure and temperature of the carrier is 15,000psi and 400°F (full differential)
- **Triggering functions:** triggered by annulus pressure operated discs - the samplers can be activated in pairs of 4 and 4 or on demand 2 samplers pr. rupture disc
- **Non-reactive:** 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 is a concentric full bore with ID 2.25" and drift bar size acc API 5CT chapter 8.10

Benefits

- Can be operated in HP/HT wells without compromising safety
- 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 sampler
- With no requirement for re-establishing single-phase at surface, sample transfer is performed rapidly and without jeopardising the integrity of the sample
- No wireline operations are necessary to collect high quality samples
- The carrier with samples will be made up at the base with final preparation done onsite

For more information contact your local Expro representative or email fluids@expro.com



Technical specifications

Design pressure	15,000psi @ 400°F
Tensile strength	350,000 lbf
Sampling tools	8 off PCS Mk2 a 400cc sample volume
Full bore diameter	57.15mm / 2.25"
Carrier OD	139.7mm / 5.5"
Tool length (with hydril connection)	8372mm
Tool length (with DST Stub ACME connection)	6970mm
Total weight	610kg with 8 slim samplers
Service fluid	NACE MR0175 / ISO 15156
Standard end connection	Hydril 3.5" PH6
Trigging	Rupture disc. 4 + 4 tools trigging