

Crude Oil (Medium Oil)

DIGESTION OF CRUDE OIL (MEDIUM OIL) USING COLDBLOCK™ DIGESTION TECHNOLOGY

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Introduction

This application note will focus on the digestion of Crude Oil (Medium Oil) using ColdBlock™ Digestion CB12L Technology. The Crude Oil used was Alaska North Slope AR 2072 with an API = ~28 and SG = ~0.90.

Method

A sample of Crude Oil was digested using the following method:

- 1g of sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 20ml of H₂SO₄ was added.
- Sample was digested at 100% power for 10min.
- The chiller was set to -5°C.
- Sample was allowed a short cool down.

- 15ml HNO₃ was added.
- Sample was digested at 100% power for a further 10min.

- After digestion 10ml of H₂O₂ was added until the sample was clear.
- Sample was normalized to 50mL using 2% HNO₃

Instrument

ColdBlock™ Digestion CB12L Technology.

General

This procedure is specific for the sample digested and may need modification for different samples to achieve the desired result.