

Crude Oil (Light Oil)

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

Author: Lorie-Anne Doig

Introduction

This application note will focus on the digestion of Crude Oil (Light Oil) using ColdBlock™ Digestion CB12L Technology. The Crude Oil used was VHG-SCRD-1P-100 with an API = ~50 and SG = ~0.78.

Method

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

- 2g of sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 15ml of H₂SO₄ was added.
- Sample was digested at 100% power for 15min.
- The chiller was set to -5°C.
- Sample was allowed to cool.

- After digestion 15-20ml 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.