

siteLAB

Petroleum Hydrocarbon Solutions

Sitelab Corporation

Visit: site-lab.com

USA: 978-363-2299

Sheet Metal Fabrication Surface Wipe Analysis

A manufacturing company uses cutting oils to produce sheet metal to assemble elevators. The metal must be cleaned after production. Wipe samples were collected by the client and sent to Sitelab to monitor and adjust a new cleaning system installed.

UVF-3100A Performance: Oil on Metal Concentrations

Dirty/Oily Metal = 1,350 mg/m²

Old Cleaning System = 42 mg/m²

New Cleaning System = 10 mg/m²

Wipe Sample Blank = 0.5 mg/m²

Used as minimum detection limit

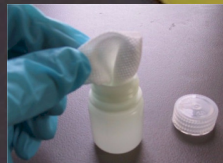


Product No. EXTR010-20-WIPE includes all supplies needed to test up to twenty samples. Use with Sitelab UVF analyzer.

©2016 Sitelab Corp METALS.APP.1

Test Procedure is Fast and Easy!

Measure a 10 x 10 cm surface area. Wet gauze pad with solvent and wipe surface clean. Staining on pad shows dirt and oil from the metal.



After wiping sample area clean, place gauze pad into jar.



Add 20 mL hexane to jar, submerging pad in solvent.



Shake 2 minutes. Pour extract into cuvette for analysis.



P/N: CAL-060H

Cutting oils can be used to calibrate the UVF-3100 analyzer. When the oil is not available, Sitelab's EPH test is performed to detect aromatic hydrocarbon content.