

IC Application Note No. C-69

Title: Zinc, sodium, calcium and magnesium in an industrial bath

Summary: Determination of zinc, sodium, calcium and magnesium in an industrial bath containing cooling lubricants using cation chromatography with direct conductivity detection.

Sample: Industrial bath containing cooling lubricants

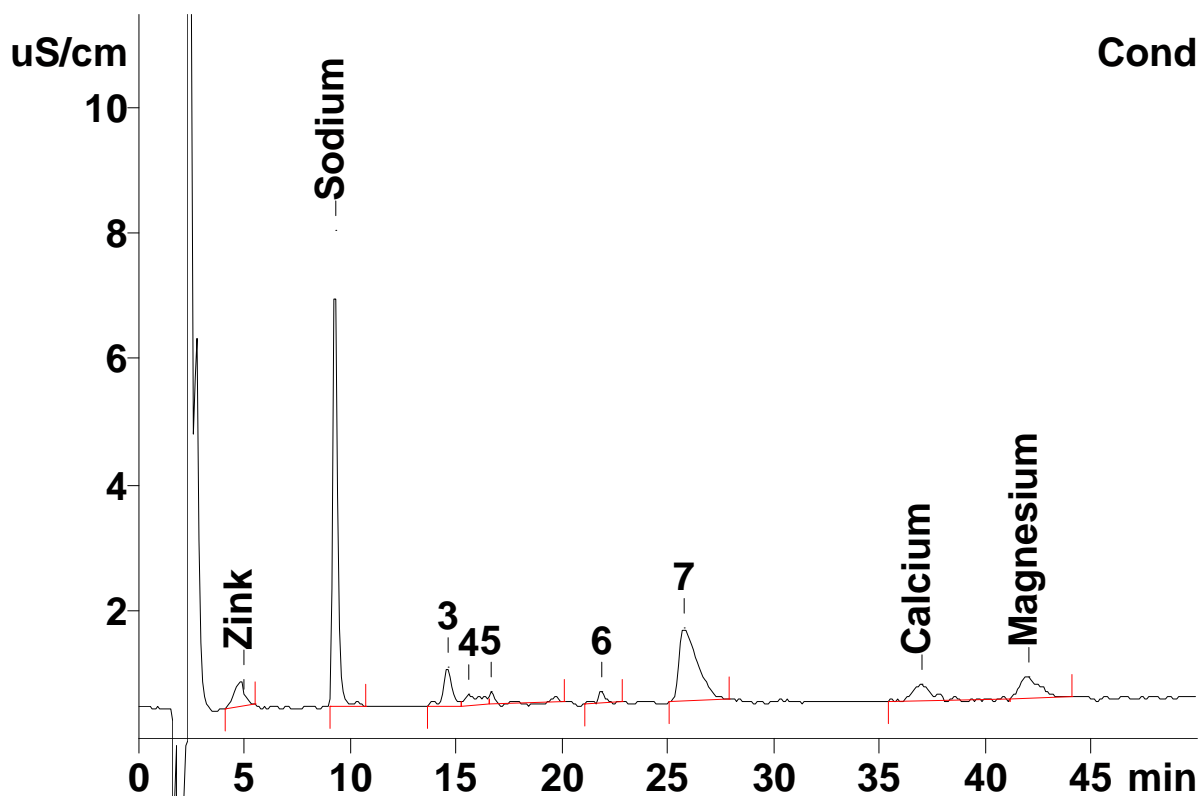
Sample Preparation: Dilution 1 : 50 with 6 mmol/L nitric acid

Column: 6.1010.100 Metrosep C 1

Eluent: 5.0 mmol/L tartaric acid,
0.08 mmol/L dipicolinic acid

Flow: 1.0 mL/min

Injection Volume: 10 μ L



Results:	Zinc mg/L	Sodium mg/L	Magnesium mg/L	Calcium mg/L
	396	732	n.q.	n.q.