

Petroleum Forensics Sample Collection Guidelines

ANALYSIS	METHOD	SAMPLE CONTAINER	PRESERVATIVE	HOLD TIME
Parent and Alkylated PAHs	8270(SIM) Modified	P - 2 x 40ml VOA Vials S - 1 x 4oz jar W – 2 x 1L Glass	Unpreserved Ice, maintained at 6°C	Unlimited If solid or water – 14 days.
C3-C36 Whole Oil	ASTM D3328 (GC/FID)	2 x 40ml VOA Vials	Unpreserved	Unlimited Cannot analyze on water or soils
C8-C40 Full Scan	ASTM D5739 (GC/MS)	P – 2 x 40ml VOA Vials S – 1 x 4oz jar W – 2 x 1L Glass	P – NONE S or W – ice, maintained at 6°C	Unlimited If solid or water – 14 days.
Simulated Distillation	ASTM 2887	2 x 40ml VOA Vials	NONE	Unlimited Cannot analyze on water or soils
Oxygenated Blending Agents	EPA 1624 Modified	2x40mL VOA vials W – 2x40mL VOA vials	P – NONE W – HCL; ice, maintained at 6°C	Unlimited If water – 14 days
Organic Lead and Lead Scavengers	GC/ECD	2x40mL VOA vials	NONE	Unlimited Cannot analyze on water or soils
C3-C10 PIANO	GC/MS	2x40mL VOA vials W – 2x40mL VOA vials S – 1 x 4oz jar	P – NONE W – HCL; ice, maintained at 6°C	Unlimited If solid or water – 14 days