

**BREATHING AIR TESTING
AQL ANALYTICAL METHODS**

ANALYTE	METHOD REFERENCE	ANALYTICAL TECHNIQUE	REPORTING LIMIT	G-7.1 Grade E SPECIFICATION
Oxygen, O ₂	ASTM D3416-88 (modified)	Gas Chromatography	Not Applicable % levels present	20-22%
Nitrogen, N ₂	ASTM D3416-88 (modified)	Gas Chromatography	Not Applicable % levels present	Not Applicable
Argon, Ar	ASTM D3416-88 (modified)	Gas Chromatography	Not Applicable % levels present	Not Applicable
Carbon Monoxide, CO	ASTM D3416-88 (modified)	Gas Chromatography	1 ppm v/v	10 ppm v/v
Carbon Dioxide, CO ₂	ASTM D3416-88 (modified)	Gas Chromatography	10 ppm v/v	1000 ppm v/v
Methane, CH ₄	ASTM D3416-88 (modified)	Gas Chromatography	1 ppm v/v	Not Applicable
Total Hydrocarbons, as CH ₄	ASTM D3416-88 (modified)	Gas Chromatography	5 ppm v/v	25 ppm v/v
Water	ASTM D3416-88 (modified)	Gas Chromatography	10 ppm v/v	24 ppm v/v
Condensed Oil and Particulate	CGA G-7.1 and NIOSH 0500 (modified)	Gravimetric	0.2 mg/m ³	5 mg/m ³