

**MATERIALS CONTROL
LABORATORY MANUAL**

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
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encompasses both Pratt & Whitney Canada (PW North) and Pratt & Whitney US (PW South).

- 3.2 **Semi-quantitative Spectrographic Analysis** The Determination of a material's chemistry to detect the presence of the alloying elements to a degree by which a positive identification can be made as to the alloy type, as well as the ability to distinguish between similar alloys.
- 3.3 **Quantitative Spectrographic Analysis** P&W defines quantitative spectrographic



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3.4 Wet Chemical Analysis

of metallic component to identify alloys. This is not process solution analysis.

3.5 Optical Emission Spectroscopy (OES)

OES is defined as testing which utilizes actively Coupled Plasma), DCP (Direct Current Plasma) and DR (Direct

4. PROCEDURE:

4.1 The commercial laboratories listed in [Table I](#) have been reviewed by Pratt & Whitney-

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TABLE I

TYPE OF TESTING
(See [TABLE II](#))

COMMERCIAL LABORATORIES



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TABLE I

COMMERCIAL LABORATORIES



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TABLE I			
		TYPE OF TESTING (See TABLE II of TEST CODES)	

COMMERCIAL LABORATORIES

SMC

**Approved
Testing**

Limited



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TABLE I		
		TYPE OF TESTING (See TABLE II of TEST CODES)

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TABLE II	
Specific Test Codes	Testing Description Yellow highlighted fields require proficiency testing per MCLM F23
1	Tensile, Room Temperature
2	Tensile, Elevated Temperature
3	Stress Rupture
4	Creep Rupture
5	Hardness (all hardness not covered by HIM Code 1)
6	Impact
7	Metallographic Examination - Not covered by another suffix (See Note



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Notes:

1. P&W defines semi-quantitative spectrographic analysis as "The Determination of a material's chemistry to detect the presence of the alloying elements to a

