

ULTRASPEC ANALYTICAL SERVICES
Call for Prices / Specific Laboratory Testing:
Effective October 1, 2007

Code	Test Description	Sample Size	ASTM Method
A-11	Corrosion, Copper Strip @ 100°C	2 oz.	D-130
A-12	Flash Point, Cleveland Open Cup (COC)	4 oz.	D-92
A-13	Fire Point, Cleveland Open Cup (COC) (Includes Flash Point)	4 oz.	D-92
A-15	Neutralization Number: (Total Acid or Strong Base Number)	1 oz.	D-974
A-16	Millipore (5 micron)	5 oz.	
A-17	Precipitation No. of Lubricating Oils	1 oz.	D-91
A-18	Saponification Number	1 oz.	D-94
A-20	Viscosity CST @ 40°C	1 oz.	D-445
A-21	Viscosity CST @ 100°C	1 oz.	D-445
A-22	Viscosity Index (Incl. Viscosity @ 40°C & 100°C)	1 oz.	D-2270
A-23	Water by Distillation	1 pint	D-95
A-25	Rotary Pressure Vessel Oxidation Test (RPVOT)	8 oz.	D-2272
*A-26	G.M. Quenchometer Test	8 oz.	D-3520-76
A-27	Specific Gravity/Wt. per Gal. @ 60°F	4 oz.	D-1217
A-28	pH (Potentiometric Method)	4 oz.	
A-30	Cast Iron Chip Test	4 oz.	D-4627-86
A-31	Soluble Oil - % Oil by Babcock Method	4 oz.	
A-32	Non-volatiles by evaporation at 100°C	4 oz.	
A-33	Alkaline Reserve for water glycol hydraulic fluids (includes pH)	4 oz.	
A-34	Particle Count (ISO Code & Distribution) / Entek IRD	6 oz.	
A-35	Pentane Insolubles (Includes Precipitation and Pentane Number)	2 oz.	
A-36	Cooling Curve using Drayton Quenchalyzer	1 gal.	

* If this test is run on used oil, two other tests - Acid Number (A-15) and Pentane Insolubles (A-35) are recommended. If they exceed 0.5, the G.M. Quenchometer test will be run using a Nickel ball instead of the ASTM standard Chromized-Nickel ball. Test will not be run if water is present.



X-RAY ANALYSIS for ELEMENTS :

AMERICAN ULTRA SPECIALTIES 6855 Industrial Parkway Hudson, OH 44236
 Phone: (330) 656-5000 Fax: (330) 656-9742 email: ausi@alltel.net

“ULTRASPEC ANALYTICAL TESTING SERVICES”

**B - Qualitative Series
(Solids & Liquids)**

**C - Quantitative Series
(Petroleum-based liquids only)**

Code	Test Description	Sample Size
B-01	Testing of Elements from Aluminum to Uranium	1 oz.
C-01	% Chlorine	1 oz.
C-02	% Sulfur	1 oz.
C-03	% Sulfur: Total and Active	4 oz.
C-04	% Sulfur and Chlorine Combined	4 oz.
C-05	% Chlorine plus Sulfur (Total and Active)	1 oz.
C-06	Trace Metals and Standard Anti-Wear Additives for hydraulic oils (%P, %S, %Ca, %Fe, %Cu, %Zn)	1 oz.
C-07	Trace Metals and Standard EP (Extreme Pressure) Additives for Gear Oils	1 oz.
C-09	% Calcium	1 oz.

Testing of other Elements on request (depending on standards availability), prices on request.

COATING / RUST PREVENTATIVE		
Code	Test Description	Sample Size
D-01	Comparative test for effectiveness of oil type rust preventatives (Cleveland Condensing Humidity Cabinet) ASTM D-4585	4 oz.
G-01	Gas Chromatography PCB Determination EPA 8080 Method (Modified Single Scan)	1 oz.

NOTE: If extra sample preparation is needed, it will be charged as X-01.

SAMPLE PREPARATION	
Code	Test Description
X-01	Sample Preparation

STANDARD MAINTENANCE TESTING PACKAGES

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STANDARD HYDRAULIC OIL MAINTENANCE TESTING	
Code	Test Description
HM-PKG	Hydraulic Oil Sample Size 1 Quart
	A-20 Viscosity CST @ 40°C
	A-15 Neutralization Number (Total Acid or Strong Base Number)
	A-16 Millipore (5 micron)
	A-11 Corrosion, Copper Strip @ 100°C
	A-34 Particle Count (ISO Code & Distribution) *
	C-06 Trace Metals & AW Additives
	Moisture (by Hotcup)

* This test will not be run if Millipore test fails.

STANDARD CUTTING OIL MAINTENANCE TESTING	
Code	Test Description
CM-PKG	Cutting Oil Sample Size 1 Quart
	A-20 Viscosity CST @ 40°C
	A-15 Neutralization Number (Total Acid or Strong Base Number)
	A-18 Saponification Number
	A-11 Corrosion, Copper Strip @ 100°C
	C-01 % Chlorine
	C-06 Trace Metals & Standard EP additives.
	Moisture (by Hotcup)

STANDARD QUENCH OIL MAINTENANCE TESTING	
Code	Test Description
QM-PKG	Quench Oil Sample Size 1 Quart
	A-20 Viscosity CST @ 40°C
	A-15 Neutralization Number (Total Acid or Strong Base Number)
	A-34 Pentane Insolubles (Includes Precipitation & Pentane Number)
	A-26 G.M. Quenchometer Test *
	Moisture (by Hotcup); Water by distillation – on request if moisture is present

* Nickel ball result reported on used oils. Chromized Nickel ball result reported for new oils.
 Test will not be performed if water is present

“ULTRASPEC ANALYTICAL TESTING SERVICES”

ALL TESTING SERVICES ARE SUBJECT TO THE FOLLOWING CONDITIONS

- 1. Immediate results upon completion of tests can be verbally transmitted by phone, faxed, or e-mail if requested.**
- 2. Typewritten results will be forwarded on all Analytical tests.**
- 3. Published prices will hold firm unless prior notice is issued.**
- 4. Specialized laboratory projects can be arranged by contract on an hourly basis @ \$75.00/hour. This also includes sample preparation, modified (non-standard) testing or procedures.**
- 5. Analysis can be provided on a "RUSH" basis with tests to be initiated upon receipt of sample. A surcharge of 50% of cost will be applied.**
- 6. All analytical service performed has a minimum charge of \$40.00 to cover handling.**
- 7. Purchase order numbers and testing requested must accompany receipt of all orders.**
- 8. Attached is a Sample Data Form to accompany samples which will provide us the necessary information to prevent any delay of our analytical services.**