

intertek

caleb
brett

CAPACITIES FUEL LABORATORY





About us

Intertek petroleum industry services include laboratory testing, cargo inspection, R&D, materials analysis, asset integrity management, corrosion control, safety, and much more.

For more than 130 years, companies around the world have relied on Intertek to help ensure the quality and safety of their products, processes and systems.

Intertek is a leading provider of Total Quality Assurance for various industries around the world. With our network of more than 1,000 offices and laboratories, and more than 43,000 people in more than 100 countries, we offer innovative and tailor-made solutions for our clients, in Assurance, Testing, Inspection and Certification, for their operations and supply chains . Intertek's experience in Total Quality Assurance, consistently delivered with precision, perseverance and passion, allows our customers to move forward safely.

Our purpose

Bring safety and quality to daily life.

Mission

Exceeding the expectations of our customers with innovative and customized solutions in Assurance, Testing, Inspections and Certifications of their operations and supply chain worldwide 24/7.

View

Become the most reliable partner for Quality Assurance.

Values

- We are a global family that values diversity.
- We always do the right thing, with precision, consistency and passion.
- We trust each other and have fun winning together.
- We form our own vision of the future.
- We create sustainable growth for all.



Fuel laboratory

Los más de 130 años de experiencia de Intertek nos permiten brindarle una amplia gama de opciones en servicios de prueba para la industria.

Intertek provides testing, inspection and technical services to the global petroleum industry, and operates in over 100 nations.

- Sulfur (X-ray fluorescence)
- Calcium (AA spectroscopy)
- Ignition quality (Calculated)
- Heat of combustion (Calculated)
- Raw salt
- Sedimentation by extraction
- Corrosion in copper bar
- Match
- Zinc (AA spectroscopy)
- Ashes
- Sulphated ash in lubricating oils
- ASTM distillation
- Diesel in used oil
- Used oil gasoline
- Grav. API / Density / Dens. Rel.
- Viscosity index
- Calculated cetane number
- Insoluble in lubricating oils
- Runoff point
- Obstruction point in cold filter
- Miscibility in water
- Nitrogen (Chemiluminescence)
- Cetane number (motor)
- Total sediments (hot filtration)
- Potential sediments (aging)
- Sodium (AA spectroscopy)
- Hydrogen sulfide (H₂S, liquid phase)
- Vanadium (AA spectroscopy)
- Waste coal, Conradson
- Waste coal, microcarbon
- Residual coal, 10% microcarbon
- Flash point (PMCC)
- Cloud point
- Stability to oxidation in diesel
- Thermal stability in diesel
- Lubricity
- Cinematic visibility
- Color ASTM

Fuel: Diesel, Gasoline, Kerosene

Test	Methodology	Diesel A 1	Gasoline	Kerosene	Accreditation
Visual Inspection	Visual	•	•	•	--
Distillation IBP	ASTM D-86	•	•	•	LE 103
Distillation 90%	ASTM D-86	•	•	•	LE 103
API a 60°F	ASTM D-1298	•	•	•	LE 103
Density at 15°C	ASTM D-1298/ D-4052	•	•	•	LE 103
Cetano Index	ASTM D-976	•			LE 103
Sulfur Content	ASTM D-5453	•	•	•	--
Flash Point	ASTMD-93	•			LE 103
Flash Point	ASTM D-56			•	LE 103
Sediment & Water	ASTM D-2709	•			LE 103
Smoke Point	ASTM D-1322			•	--
Vapor Pressure (DVPE)	ASTM D-5191		•		--
Lead Content	ASTM D-3237		•		--
Gum Content Air Jet (Unwashed and/or Solvent Washed)	ASTM D-381		•		--
Octane Number (Research)	ASTM D-2699		•		--
Sulfur Content, ppm or % w/w	ASTM D 4294	•			LE 103
Viscosity, Kin.@ 40 °C, cSt	ASTM D 445	•			LE 103
Carbon Residue, Microcarbon, on 10%, %w/w	ASTM D 86 + ASTM D4530	•			LE 103
Carbon Residue, Ramsbottom, on 10%, %w/w	ASTM D524	•			LE 103
Copper Corrosion, N°	ASTM D 130	•	•	•	LE 103
Oxidation Stability, mg/100 ml	ASTM D 2274	•			--
Water by Distillation, % vol	ASTM D 95	•			LE 103
Sediment by extraction, %w/w	ASTM D 473	•			LE 103
Pour Point, °C	ASTM D 97	•			LE 103
Cloud Point, °C	ASTM D 2500	•			LE 103
Ash, %w/w	ASTM D 482	•			LE 103
Appearance	ASTM D 4176	•			LE 103
Colour ASTM, N°	ASTM D 1500	•	•	•	LE 103
Lubricity at 60°F, um	ASTM D 6079	•	•		LE 103
Total base Number, TBN	ASTM D 2896	•			--
Total Acid Number (TAN), mgKOH/g	ASTM D 664	•			--
Total Acid Number (TAN), mgKOH/g	ASTM D 6371	•			--

Fuel: Diesel, Gasoline, Kerosene

Test	Methodology	Diesel A 1	Gasoline	Kerosene	Accreditation
Total Acid Number (TAN), mgKOH/g	ASTM D 4629	•			--
Total Aromatics	ASTM D 5186	•			--
Total Aromatics	ASTM D 5186	•			--
High Temperature Stability	ASTM D 6468	•			--
Cetane Number	ASTM D 613	•			--
Vapor/Liquid rate, calculated	ASTM D 4814		•		--
Water Content (Volumetric Karl Fisher)	ASTM E 203	•	•	•	--
Reid Vapor Pressure (RVP)	ASTM D 4953			•	--
Acidity, total mg KOH/g	ASTM D 3242			•	--
Sulfur Mercaptan	ASTM D 3227			•	--
Naphthalene	ASTM D1840			•	--

Marinos: IFO 380, MDO, IFO 180

Test	Methodology	IFO 380	IFO 180	MDO	Accreditation
Test	ASTM D-1298/D- 4052	•	•	•	LE 103
Density 15 °C	ASTM D-445	•	•	•	LE 103
Viscosity 40, 50 and 100 °C	ASTM D-93-B	•	•	•	LE 104
Inflammation Point	ASTM D-97	•	•	•	LE 105
Runoff Point	ASTM D-4530	•	•	•	LE 106
Residual Carbon, Micromethod	ISO 8217 Annex F	•	•	•	--
Calculated Carbon Aromaticity Index, CCAI	ASTM D976	•	•	•	LE 106
Cetane Index, N °, Calculated	ASTM D-4294	•	•	•	LE 106
Sulfur	ASTM D-482	•	•	•	LE 106
Ashes	ASTM D-4870	•	•	•	LE 106
Potential Total Sediment	ASTM D 473	•	•	•	LE 106
Sediment by extraction,% w / w	ASTM D-95	•	•	•	--
Water by distillation	ASTM D-1796	•	•	•	--
Water and Sediments	ASTM D-5184/B	•	•	•	--
Aluminum and Silicon	ASTM D-5863/B	•	•	•	LE 106
Vanadium, Nickel, Sodium	IP 470	•	•	•	--
Metals, Al / Si / V / Ni / Fe / Na / Ca / Zn, ppm	ASTM D 2274	•			--
Stability to Oxidation, mg / 100 ml	IP 500	•	•	•	--
Match	ASTM D-3279	•	•	•	--
Insoluble n-Heptans,% w / w	ASTM D-4868	•	•	•	--
Calorific value, calculated	ASTM D-4740	•	•	•	--
Stability & Compatibility, No.	IP 570	•	•	•	--
Content of Hydrochloric Acid	ASTM D 2896	•	•	•	--
Total Base Number, TBN	ASTM D-2500	•	•	•	--
Cloud Point	ASTM D 664	•	•	•	LE 106
Acid number		•	•	•	--

Raw

Test	Methodology	Accreditation
Carbon Residue, Microcarbon, % w/w	ASTM D 1298	LE 103
Carbon Residue, on 10% Conradson	ASTM D 4530	LE 103
Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid Phase	ASTM D189	LE 103
Extraction Method.	IP 570	--
Distillation, atmospheric, °C	ASTM D 86	LE 103
Metals - Al/Si (Ashing and fusion), AAS, ppm	ASTM D 5184	LE 103
Metals - Al/Si/V/Ni/Fe/Na/Ca/Zn (Ashing and fusion), AAS,ppm	IP 470	--
Metals - Ni/V/Na (Solvent dilution), AAS, ppm	ASTM D 5863b	LE 103
Pour Point, °C	ASTM D 97	LE 103
Salt in Crude Oil, g/m3 (lb/1000bbl)	ASTM D 3230	--
Sediment by extraction, %w/w	ASTM D 473	LE 103
Sulfur Content, ppm or % w/w	ASTM D 4294	LE 103
Viscosity, Kin.@ 40-50-100°C, cSt	ASTM D 445	LE 103
Water & Sediments, % vol	ASTM D 4007	LE 103
Total Acid Number	ASTM D 664	--
Water by Distillation, % vol	ASTM D 4006	LE 103
Water in Crude Oils by Potentiometric Karl Fisher Titration	ASTM D4377	--

Oils and lubricants

Test	Methodology	Accreditation
Sulfated Ash	ASTM D 874	LE 103
Demulsibily	ASTM D 1401	--
API / Specific Gravity / Density @ 15°C	ASTM D 1298/ 4052	LE 103
Color	ASTM D-1500	LE 103
Flash Point, °C Pour	ASTM D 93	--
Point, °C Viscosity	ASTM D 97	LE 103
Index Viscosity, Kin.@ 40 °C	ASTM D 2270	LE 103
Viscosity, Kin.@ 100 °C	ASTM D 445	LE 103
Water by Potentiometric Karl Fisher Titration	ASTM E 203	--
Total Acid Number, TAN	ASTM D 664	--
Total base Number, TBN	ASTM D 2896	--
Water by Distillation, % vol	ASTM D95	LE 103

Fuel

Test	Methodology	Accreditation
Acid Number, mg KOH/ gr	ASTM D 664	--
Ash, %w/w	ASTM D 482	LE 103
Asphaltenes, % w/w	ASTM D 3279	LE 103
Calculated Carbon Aromaticity Index, CCAI, calculated	ISO 8217	--
Calorific value, calculated, MJ/Kg	ASTM D 4868	--
Carbon Residue, Microcarbon, % w/w	ASTM D 4530	LE 103
Cetane Index, N°, calculated	ASTM D 976	LE 103
Cloud Point, °C	ASTM D 2500	LE 103
Density @ 15°C / API Gravity, Kg/m3	ASTM D 1298	LE 103
Determination of Hydrogen Sulfide in Fuel Oil - Rapid Liquid	IP 570	--
Phase Extraction Method.	ASTM D 93	LE 103
Flash Point, °C	ASTM D 5184	LE 103
Metals - Al/Si (Ashing and fusion), AAS, ppm	IP 470	--
Metals - Al/Si/V/Ni/Fe/Na/Ca/Zn (Ashing and fusion), AAS,ppm	ASTM D 5863b	LE 103
Metals - Ni/V/Na (Solvent dilution), AAS, ppm	ASTM D2274	--
Oxidation Stability, mg/100 ml	IP 500	--
Posphorus	ASTM D 97	LE 103
Sediment by extraction, % w/w	ASTM D 473	LE 103
Stability & Compatibility, N°	ASTM D 4740	--
Sulfur Content, ppm or % w/w	ASTM D 4294	LE 103
Total base Number, TBN	ASTM D 2896	--
Total Existent Sediment, hot filtration, % w/w	ASTM D 4870	LE 103
Total Sediment, potential, % w/w	ASTM D 4870	LE 103
Viscosity, Kin.@ 40-50-100°C, others, cSt	ASTM D 445	LE 103
Water & Sediments, % vol	ASTM D 1796	LE 103
Water by Distillation, % vol	ASTM D 95	LE 103

Biodiesel

Test	Methodology	Accreditation
Acid Number	EN 14104 / ASTM D 664	LE 103
Carbon Residue, on 10% Conradson	ASTM D189	LE 103
Cloud Point	ASTM D 2500	LE 103
Copper Corrosion	ERN ISO 2160 / ASTM D 130	LE 103
Density @ 15°C	EN ISO 3675 / ASTM D 4052 - 1298	LE 103
Density @ 15°C	EN ISO 3679 / ASTM D 93	LE 103
Pour Point, °C	ASTM D97	LE 103
Pour Point, °C	ISO 3987 / ASTM D 874	LE 103
Ash	ASTM D 482	LE 103
Cetane Number	ASTM D 613	--
Water Content (Volumetric Karl Fisfer)	ASTM E 203	--
Sulfur Content, ppm or % w/w	ASTM D 5453	LE 103
Viscosity, Kin.@ 40 °C	EN ISO 3104 / ASTM D445	LE 103
Water & Sediment	ASTM D 2709	LE 103



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