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CHEMSAIN
provides in-situ sampling and
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RELIABLE, HIGH QUALITY
analytical testing services
for oil and gas industry.”

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CHEMSAIN

OIL & GAS TESTING CAPABILITY



CONTACT CHEMSAIN NOW!

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MS ISO/IEC 17025

JET FUEL

Aromatics	Freezing Point
Benzene	Kinematic Viscosity
Colour (Saybolt)	Net Heat of
Copper strip corrosion	Naphthalene
Combustion	Particulate Contamination
Distillation	Reid Vapour Pressure
Temperature	Smoke Point
Density	Salt Content
Doctor Test	Sulfur, Mercaptan
Existent Gum Content	Total Acidity
Electrical conductivity	TEL Lead Content
FAME content	Water separation
Flash Point (ABEL)	

DIESEL FUEL

Ash Content	Aromatics, Saturates & Olefins
Asphaltenes	Auto Ignition Temperature
Arsenic	Copper Strip Corrosion
Conductivity	Cold Filter Plugging Point (CFPP)
Color (ASTM)	Carbon Residue (Micro Method)
Cloud Point	Distillation Temperature
Cetane Index	Electrical conductivity
Flash Point (PMCC)	Gross Heating Value
Metals	Reid Vapour Pressure
Pour Point	Water and Sediment
Sulfur Content	Sediment by Extraction
Kinematic Viscosity	Total Acid Number

BODIESEL (B100 & BLEND)

FAME content	Total Acid Number (TAN)
Density	Ester Content
Kinematic	Methanol Content
Viscosity	Glyceride Content
Ash Content	Flash Point (PMCC)
Sulfur	Metals
Cloud Point	Cold Filter Plugging Point (CFPP)
Cetane Index	Carbon Residue (Micro Method)
Sulphated Ash Content	Pour Point
Water Content Total	Particulate Contamination
Contamination	Oxidation Stability
pHe	Copper Strip Corrosion
	Colour (ASTM)

HYDROCARBON ALLOCATION

Recombined Total Dry Fluid Composition	Dry Fluid Physical Properties
	Live Oil Density Water Density
Pressurized Hydrocarbon Fluid Recombination	Free and Dissolved Water
	Total Water Cut & Sediment Content
Bubble Point	Molecular Weight Gas Oil Ratio (GOR)

CRUDE OIL & PETROLEUM FEEDSTOCK

API Gravity, Density
Appearance
Arsenic
Ash
Asphaltenes
Auto Ignition Temperature
Basic Sediment & Water
Benzene
Characterisation Factor
Cloud Point
Colour
Copper Corrosion
Crude Composition
Carbon Residue (Micro Method)
Detailed Hydrocarbon Analysis (DHA)
Diene Value
Dissolved Carbon Dioxide
Dissolved Hydrogen Sulphide
Distillation Temperature
Flash Point
Finger Printing (Oil Spill)
Full Blown Crude Assay
Gross Calorific Value
H2S & Mercaptan Sulfur
Kinematic Viscosity
Pressurized Crude Composition
Mercury
Metals
Methanol
Oxidation Stability
Organic Acid IC
Pour Point
Vapour Pressure
Salt Content
Sand Content
SARA
Sediment
Total Acid & Total Base number
Total Nitrogen
Sulfur Content, Sulfur Species
Water Content
Wax Content

CONDENSATE

Colour (Saybolt)
Compositional Analysis
Copper Strip Corrosion
Liquid Phase and Gas Phase Mass
Fraction
Distillation
Density
Existent gum
Flash point
Gross heating value
H₂S and Mercaptan Sulfur
Mercury (Total Mercury and Mercury Species)
Moisture
Total Acid Number, TAN
Total Sulfur
True Vapour Pressure
Reid Vapour Pressure
Water and Sediment

FULL BLOWN CRUDE ASSAY

Atmospheric distillation (D2892)
Vacuum pot distillation (D5236)
Distillation (D86 & D1160)

Aniline point	Total Acid Number
Specific gravity API	Total Nitrogen
Ash Content	Hydrocarbon Types
Flash Point	PONA, Aromatics
Asphaltenes	Polycyclic Aromatic
Cetane Index	Pour Point
Carbon Residue	Refractive Index
Cloud Point	Vapour Pressure
Penetration	Wax Content
Sulfur, Mercaptan	Naphthalene
Total Sulfur	Content
	Viscosity

GAS

Arsenic
Carbon Dioxide CO₂ Content (In situ)
Chlorine
Dew Point (Hydrocarbon & water)
Real gross & Net CV, Density, Compressibility, Wobbe Index, Molecular Weight
C5+ Barrels / MMSCF @ 15°C
Gas Composition up to C12+
Hydrogen Sulfide
Total Sulfur and Mercaptan
Mercury

FORMATION WATER

Ion composition	Phosphate
Anions	Salinity
Conductivity	Scaling index
Density	Suspended solid
Dissolved C, H ₂ S, O ₂	TOC (Organic acid)
Hardness	Temperature
Alkalinity, Hydroxide (as OH ⁻)	Total Dissolved Solid
pH @ 25°C	Turbidity
Biocides residues	SRB for 21 days

Aniline Point	Oxidation Inhibitor
Color (ASTM)	Corrosive Sulfur
Flash & Fire Point	Water Content
Interfacial Tension	Polychlorinated Biphenyls
Pour Point	Particle Count
Specific Gravity, Density	Resistivity
Kinematic Viscosity	Refractive Index
Dielectric Breakdown, Strength	Metals
Oxidation Stability	Filter Patch Test
Dissipation or Power Factor	Dissolved Gas Analysis
Total Acid Number	Copper Strip Corrosion

TRANSFORMER



We have our own certified

- **MACHINE LUBRICANT ANALYST**
- **LABORATORY LUBRICANT ANALYST**

from International Council for Machinery Lubrication (ICML)

Air Release	Foaming Characteristic
Ash Content / Sulfated Ash	Flash Point (PMCC / COC)
Color (ASTM)	Pentane Insoluble
Carbon Residue (Micro Method)	Pour point
Copper Strip Corrosion	RPVOT
Density	Sediment
Distillation Temperature	Total Sulfur

CONTAMINANTS	OIL CONDITION
Water Content	Total Acid Number (TAN)
Particle Count	Total Base Number (TBN)
Soot / Fuel / Glycol by FTIR	Viscosity
Metal (Contaminant Metals)	Metals (Additive & Wear Metals)
Particle Quantification Index	Total Acid Number (TAN)
Oxidation/ Nitration/ Sulfation by FTIR	RULER
	MPC

LUBE OIL