



المؤسسة التونسية للأنشطة البترولية  
*Entreprise Tunisienne d'Activités Pétrolières*  
**DIRECTION DES SERVICES PETROLIERS**

# **SERVICES LIST 2024 ETAP LABORATORIES**

January 2024



# LABORATORIES SERVICES LIST 2024

CATEGORIE	SAMPLING		
	CODE	Location	Unit
EXPERT	LAB-01	On shore	Day
	LAB-02	Offshore	Day
	LAB-03	Desert	Day
SENIOR ENGINEER	LAB-04	On shore	Day
	LAB-05	Offshore	Day
	LAB-06	Desert	Day
ENGINEER	LAB-07	On shore	Day
	LAB-08	Offshore	Day
	LAB-09	Desert	Day
SENIOR TECHNICIAN	LAB-10	On shore	Day
	LAB-11	Offshore	Day
	LAB-12	Desert	Day
TECHNICIAN	LAB-13	On shore	Day
	LAB-14	Offshore	Day
	LAB-15	Desert	Day
CAR & DRIVER	LAB-16		Day

REPORT GENERATION	LAB-17	Laboratory	Day
----------------------	--------	------------	-----

For expedited analyses (Hot shot), a percentage of 25% must be added to the overall cost



## I- SEDIMENTOLOGY & PETROPHYSICS LABORATORY

CODE	Analyses	Unit
Conventional / Routine Core Analyses		
RCA-01	Water plugging	Plug
RCA-02	Gasoil plugging	Plug
RCA-03	Brine plugging	Plug
RCA-04	Core slabbing	Meter
RCA-05	Core marking up and boxing	Meter
RCA-06	Nitrogen permeability	Plug
RCA-07	Helium porosity and grain density	Plug
RCA-08	Nitrogen permeability, helium porosity and grain density	Plug
RCA-09	Core photography (White Light)	Meter
RCA-10	Plug waxing	Plug
RCA-11	Whole core sample waxing (15 - 25 cm)	Sample
RCA-12	Dean Stark water saturation	Plug
RCA-13	Laboratory Core Gamma Scan (Total & Spectral)	-
RCA-14	Laboratory Core Density Scan	-
RCA-15	Digital plug or hand specimen photography	Sample



CODE	Analyses	Unit
<b>Scanning Electronic Microscope Observations</b>		
SEM-01	SEM observation (Universities, Research Centers & Independent Researchers)	3 Hours
SEM-02	SEM observation (Companies)	3 Hours
SEM-03	SEM full description (geological sample)	Sample

CODE	Analyses	Unit
<b>Sedimentological Analyses</b>		
SDT-01	Sedimentological core description 1 :50 clastic/carbonate	Meter
SDT-02	Basic fracture logging dip relative to core axis	Meter
SDT-03	Stylolite count on non-oriented core (including log of stylolite density)	Meter
SDT-04	Thin section full description	Sample
SDT-05	Providing facilities for thin section description & Photography	Hour
SDT-06	Staining techniques for carbonates. per stain	Sample
SDT-07	X-Ray analyses (Bulk Rock)	Sample
SDT-08	X-Ray analyses (Clay Fraction)	Sample
SDT-09	Diagenetic model study	Unit
SDT-10	Integrated sedimentological & petrophysical interpretations	Unit



## II- ORGANIC GEOCHEMISTRY/ORGANIC PETROGRAPHY LABORATORIES

CODE	Analyses	Unit
OGP-01	Routine sample washing and crushing	Sample
OGP-02	Contaminated sample preparation (hand pick cutting)	Sample
OGP-03	Solvent extraction or cleaning using soxhlet (oil base mud)	Sample
OGP-04	Hand picking for extraction	Sample
OGP-05	Soxhlet extraction (quantitative) SR	Sample
OGP-06	Soxhlet extraction (Non quantitative) SR or oilseeps	Sample
OGP-07	TOC	Sample
OGP-08	Rock-Eval- Oxydation	Sample
OGP-09	Rock-Eval- Pyrolyse	Sample
OGP-10	Kinetics	Sample
OGP-11	Complete liquid chromatography (Sat. Arom. NSO) SARA	Sample
OGP-12	Whole oil gas chromatography	Sample
OGP-13	Whole oil gas chromatography (including C4-C7)	Sample
OGP-14	Saturate gas chromatography	Sample
OGP-15	Biomarkers (GC/MS) of saturates	Sample
OGP-16	Biomarkers (GC/MS) of aromatics	Sample



CODE	Analyses	Unit
OGP-17	Diamnoids analyses GCMS NSO	Sample
OGP-18	1D Basin Modeling	Well
OGP-19	Carbon isotope composition of Saturates	Sample
OGP-20	Carbon isotope composition of Aromatics	Sample
OGP-21	Oil reservoir continuity or commingled production allocation including whole oil and interpretation	Unit
OGP-22	Heat flow calculation and generation of HF map	Sample
OGP-23	Basin view (Generation of maps for maturity and HC kitchen areas)	Sample
OGP-24	Basin view (Estimation of the timing and amount of HC Generation / Expulsion)	Sample
OGP-25	Basin Flow (Delineation of the migration pathways & the possible HC traps)	Sample
OGP-26	Thin section preparation (Organic Petrography)	Sample
OGP-27	Polish section preparation (Organic Petrography)	Sample
OGP-28	Organic Petrography study	Sample



### III- PETROLEUM FLUIDS LABORATORY

CODE	Analyses	Unit
PFL-01	Density and specific gravity	Sample
PFL-02	Kinematic viscosity by temperature	Sample
PFL-03	Pour point	Sample
PFL-04	Cloud point	Sample
PFL-05	BSW	Sample
PFL-06	Water content	Sample
PFL-07	Sediments content	Sample
PFL-08	Sulfur content	Sample
PFL-09	Salts content	Sample
PFL-10	Asphaltenes content	Sample
PFL-11	Paraffins content	Sample
PFL-12	Gas composition (C1-C6+. N2. CO2. H2S) by CPG & properties	Sample
PFL-13	Oil storage composition by CPG	Sample
PFL-14	Simulated distillation by HTGC	Sample
PFL-15	Solubility tests	Sample
PFL-16	Heat test	Sample
PFL-17	Dihydrogen sulfur (H2S) / Mercaptan gas content	Sample
PFL-18	Cold Finger Test	Sample
PFL-19	Sample Preparation	Sample
PFL-20	Wax appearance temperature (WAT) by DSC	Sample



المؤسسة التونسية للأنشطة البترولية  
*Entreprise Tunisienne d'Activités Pétrolières*

**DIRECTION DES SERVICES PETROLIERS**

CODE	Analyses	Unit
PFL-21	Oil/Oil Compatibility study	Unit
PFL-22	Evaluation of paraffin inhibitors performance (Cold finger study)	Unit
PFL-23	Organic deposit study	Sample
PFL-24	Additives study	Unit

PFL-25	Water by Karl Fisher	Sample
PFL-26	Octane index	Sample
PFL-27	Heavy metals content (Ni, V...) by ICP	Sample
PFL-28	Flash point	Sample
PFL-29	RVP (Reid Vapor Pressure)	Sample
PFL-30	Humidity & Dew Point for Gas	Sample





#### IV- ENVIRONMENT LABORATORY

CODE	Analyses	Unit
ENV-01	pH (Water)	Sample
ENV-02	Salinity	Sample
ENV-03	conductivity	Sample
ENV-04	TDS	Sample
ENV-05	TSS / MES	Sample
ENV-06	Carbonates/bicarbonates	Sample
ENV-07	Calcium	Sample
ENV-08	Magnesium	Sample
ENV-09	Sodium	Sample
ENV-10	Potassium	Sample
ENV-11	Sample preparation for ICP	Sample
ENV-12	Heavy metals (number $\leq$ 4 elements)	Elts/Sample
ENV-13	Heavy metals (number $>$ 4 elements)	Elts/Sample
ENV-14	Granulometric analysis (soil)	Sample
ENV-15	Compatibility study	Unit



المؤسسة التونسية للأنشطة البترولية  
*Entreprise Tunisienne d'Activités Pétrolières*  
**DIRECTION DES SERVICES PETROLIERS**

CODE	Analyses	Unit
ENV-16	Chlorides	Sample
ENV-17	Sulphates	Sample
ENV-18	Nitrates	Sample
ENV-19	Nitrites	Sample
ENV-20	Total Phosphorus	Sample
ENV-21	Mercury	Sample
ENV-22	TPH in water	Sample
ENV-23	COD	Sample
ENV-24	BOD	Sample
ENV-25	Density	Sample
ENV-26	Turbidity	Sample
ENV-27	CO <sub>2</sub>	Sample
ENV-28	H <sub>2</sub> S	Sample
ENV-29	Dissolved O <sub>2</sub>	Sample
ENV-30	kjeldahl nitrogen	Sample
ENV-31	Bacteriological analysis/ Sulfate-Reducing Bacteria SRB	Sample
ENV-32	TSS Particle Size Analysis	Sample
ENV-33	pH (soil)	Sample
ENV-34	TPH in soil	Sample
ENV-35	Mineralogical analysis (XRD)	Sample



## V- BIOSTRATIGRAPHY & MICROPALAEONTOLOGY LABORATORY

CODE	Analyses	Unit
BIO-01	Washing & sorting	Sample
BIO-02	Detailed micropaleontological analysis on free microfossils	Sample
BIO-03	Thin section preparation	Sample
BIO-04	Detailed micropaleontological analysis on thin sections	Sample