



KENYA PIPELINE COMPANY LTD
LABORATORY ANALYSIS CHARGES WITH EFFECT FROM 1ST JUNE 2023

LUBRICANT OIL		
Analysis	Test Method	Approved Charges (Kshs.)
Appearance	ASTM D4176	600.00
Ash	ASTM D482	1,500.00
Viscosity @100C	ASTM D445	4,000.00
Viscosity @ 40C	ASTM D445	4,000.00
Viscosity Index	ASTM D445	4,000.00
Pour Point	ASTM D97	1,600.00
Colour	ASTM D1500	1,350.00
Copper Corrosion	ASTM D130	3,000.00
Sulphated Ash	ASTM D874	2,000.00
Flash Point	ASTM D93	2,100.00
Sediment	ASTM D473	1,800.00
Sulphur	ASTM D4294	2,000.00
Water	ASTM D95	1,200.00
Water Karl Fischer	ASTM D6304	1,200.00
Density @ 20C	ASTM D4052	1,350.00
Total Acid Number	ASTM D974	2,100.00
Crackle Test		1,000.00
Carbon Residue	ASTM D189	2,000.00

MSP/MOGAS/GASOLINE/PETROL		
Analysis	Test Method	Approved Charges (Kshs.)
Appearance	ASTM D4176	600.00
Colour	Organoleptic	400.00
Odour	Visual	600.00
Copper Corrosion	ASTM D130	3,000.00
Density @20C	ASTM D4052	1,350.00
Density @15C	ASTM D4052	1,350.00
Distillation	ASTM D86	3,000.00
Doctor Test	ASTM D4952/IP 30	800.00
FVI		4,900.00
Mercaptan Sulphur	ASTM D3227	3,000.00
Gum, Existent	ASTM D381	4,000.00
Induction Period	ASTM D525	4,730.00
Lead Content	ASTM D3237/IP 352	2,000.00
RON	ASTM D2699	12,000.00
MON	ASTM D2700	20,000.00
Reid Vapor Pressure	ASTM D323	2,500.00
Oxygenates	ASTM D6839	26,000.00
Sulphur	ASTM D4045	5,000.00

JET A-1		
Analysis	Test Method	Approved Charges (Kshs.)
Appearance	ASTM D4176	600.00
Colour Saybolt	ASTM D156	1,200.00
Odour	BS 4250	500.00
Particulate Contamination	ASTM D5452	4,000.00
Total Acidity	ASTM D3232	1,500.00
Aromatics % vol	ASTM D1319	4,500.00
Sulphur % m/m	ASTM D4294	2,000.00
Doctor Test	IP 30	1,000.00
Mercaptan Sulphur	ASTM D3227	3,000.00
Distillation	ASTM D86	3,000.00
Flash Point abel	IP170	2,100.00
Density @ 20c	ASTM D4052	1,350.00
Density @15c	ASTM D4052	1,350.00
Freezing Point	ASTM D2386	2,000.00
Viscosity @ -20c	ASTM D445	4,000.00
Specific Energy , net MJ/KG	ASTM D3338	9,700.00
Smoke Point	ASTM D1322	1,500.00
Copper Corrosion	ASTM D130	3,000.00
JFTOT	ASTM D3241	20,000.00
Existent Gum	ASTM D381	4,000.00
MSEP	ASTM D3948	9,000.00
MSEP	ASTM D7224	9,000.00
Electrical Conductivity	ASTM D2624	3,000.00
Water Reaction	ASTM D1094	900.00
Particle Count	IP 565	3,000.00
Char Value	IP 10	2,000.00
Millipore Membrane Analysis	ASTM D5452	4,000.00
FAME	ASTM D7797/IP 583	13,000.00
Napthalene Analysis	ASTM D1840	13,000.00
Microbial Growth Test (MBG)	ASTM D7978/IP 613	3,000.00

SOIL ANALYSIS		
Analysis	Test Method	Approved Charges (Kshs.)
Total Petroleum Hydrocarbon (TPH)	ASTM D7678	7000.00
PH	ASTM D1293	6500.00
Elemental analysis	APHA 31118	8750.00

AUTOMOTIVE GASOIL/DIESEL		
Analysis	Test Method	Approved Charges (Kshs.)
Appearance	ASTM D4176	600.00
Ash	ASTM D482	1,500.00
Cetane Index	ASTM D976	3,200.00
CFPP	IP 309	1,925.00
Colour	ASTM D1500	1,350.00
Copper Corrosion	ASTM D130	3,000.00
Density @15C	ASTM D4052	1,350.00
Density @20C	ASTM D4052	1,350.00
Distillation	ASTM D86	3,000.00
Flash Point	ASTM D93	2,100.00
Kinematic Viscosity	ASTM D445	4,000.00
Acid Number	ASTM D974	2,100.00
Strong Acid Number	ASTM D974	2,100.00
Carbon Residue, 10% bottom	ASTM D189	2,000.00
Sediment	ASTM D473	1,800.00
Sulphur	ASTM D4294	2,000.00
Water content	ASTM D95	1,200.00
Cloud Point	ASTM D2500	1,800.00

ILLUMINATING KEROSENE		
Analysis	Test Method	Approved Charges (Kshs.)
Colour (Saybolt)	ASTM D156	1,200.00
Conductivity	ASTM D2624	3,000.00
Smoke Point	ASTM D1322	1,500.00
Sulphur Total	ASTM D4294	2,000.00
Copper Corrosion	ASTM D130	3,000.00
Distillation	ASTM D86	3,000.00
Flash Point	IP 170	2,100.00
Density	ASTM D4052	1,350.00
Specific Gravity @ 60/60 F	ASTM D1298	800.00
Appearance	ASTM D4176	600.00
Odour	BS 4250	500.00
Char Value	IP 10	2,000.00

HEAVY FUEL OIL		
Analysis	Test Method	Approved Charges (Kshs.)
Ash content % m/m	ASTM D482	1,500.00
Asphaltenes % m/m	IP 143	3,000.00
Compatibility Test	ASTM D4740	1,000.00
Kinematic Viscosity @50c	ASTM D445	4,000.00
Pour Point	ASTM D97	1,600.00
Conradson Carbon Residue	ASTM D189	2,000.00
Calorific Value Gross	ASTM D4868	6,200.00
Calorific Value Nett	ASTM D4868	6,200.00
Density @20c	ASTM D4052	1,350.00
Density @15c	ASTM D4052	1,350.00
Sulphur content %m/m	ASTM D4294	2,000.00
Strong Acid Number	ASTM D974	2,100.00
Total Acid Number	ASTM D974	2,100.00
Flash Point pmcc	ASTM D93	2,100.00
Water content % vol	ASTM D95	1,200.00
Sediment by extraction %m/m	ASTM D473	1,800.00
Sodium content ppm	IP 464	3,000.00
Vanadium content ppm	IP 464	3,000.00
Aluminium content ppm	IP 464	3,000.00
Silica content ppm	IP 464	3,000.00
Spot Test cleanliness		1,000.00
Spot Test Compatibility		1,000.00

LIQUEFIED PETROLEUM GAS (LPG)		
Analysis	Test Method	Approved Charges (Kshs.)
RVP	ASTM D1267	5,000.00
Copper Corrosion	ASTM D130	3,000.00
Odour	BS 4250	500.00
95%Boiling Point	ASTM D1837	4,000.00
Free Water	Visual	1,500.00
Hydrogen Sulphides	ASTM D2420	2,000.00
GC Hydrocarbon Composition %Vol	ASTM D2163	21,000.00
Density @ 20deg.C	IP 235	3,000.00
LPG Sampling	ASTM	4,000.00

CRUDE OIL		
Analysis	Test Method	Approved Charges (Kshs.)
Appearance	ASTM D4167	400.00
Sediments %m/m	ASTM D473	1800.00
Density @20 DegC	ASTM D4052	1350.00
Water Content %Vol	ASTM D95	1200.00
Sulphur %m/m	ASTM D4294	2000.00
API Gravity	API	1200.00
Salts Content	IP 265	2000.00

BITUMEN		
Analysis	Test Method	Approved Charges (Kshs.)
Specific Gravity	ASTM D70	800.00
Softening Point	ASTM D36	2,800.00
Ductility	ASTM D113	2,200.00
Penetration	ASTM D1221	2,500.00
Loss on Heating	IP 45	2,000.00
Penetration after LOH	ASTM D1321	2,500.00
Flash point COC	ASTM D92	2,000.00
Solubility In Trichloroethylene	ASTM D2042	1,500.00
Crackle Test		1,500.00

EFFLUENT WATER		
Analysis	Test Method	Approved Charges (Kshs.)
Colour (Hazen)	APHA 2120B	1,200.00
Oil and Grease	ASTM D4281	8,500.00
Total Dissolved Solids (TDS)	ASTM D5907	8,500.00
PH	ASTM D1293	6,500.00
Temperature		600.00
BOD5 @ 20 degrees	ASTM D888-09	6,500.00
Elemental Analysis	APHA 3111	8,750.00
phenol	ASTM D1783-01	8,500.00
sulphides	APHA 4500F	8,500.00
Ecoli and coliforms	KS 05 459	8,500.00
Total coliforms	KS 05 459	8,500.00
Total Chromiums	ASTM D1687	8,500.00
Total Petroleum Hydrocarbon (TPH)	ASTM D7678	7,000.00

INDUSTRIAL DIESEL OIL (IDO)		
Analysis	Test Method	Approved Charges (Kshs.)
Density @20c	ASTM D4052	1,350.00
Density @15c	ASTM D4052	1,350.00
Distillation	ASTM D86	3,000.00
Flash Point pmcc	ASTM D93	2,100.00
Strong Acid Number	ASTM D974	2,100.00
Total Acid Number	ASTM D974	2,100.00
Sulphur content % m/m	ASTM D4294	2,000.00
Copper corrosion	ASTM D130	3,000.00
Kinematic Viscosity @40C	ASTM D445	4,000.00
Water content % vol	ASTM D95	1,200.00
Ash content % m/m	ASTM D482	1,500.00
CCR on 10% residue	ASTM D189	2,000.00
Sediment by extraction %m/m	ASTM D473	1,800.00
Asphaltenes %	IP 143	3,000.00
Calorific Value (Gross)	ASTM D4868	6,200.00
Calorific Value (Net)	ASTM D4868	6,200.00
Each trace metal	IP 464	3,000.00