

SPECIFICATION.

ITEM - GAS CHROMATOGRAPH

TYPE - PIONA / REFORMULYZER (OR EQUIVALENT)

APPLICATION - LABORATORY ANALYSIS – GASOLINE RANGE STREAMS

PART NUMBER - NOT APPLICABLE

MANUFACTURER - NOT SPECIFIED (SIMILAR OR EQUIVALENT ACCEPTABLE)

NOTES:

TECHNICAL SPECIFICATION FOR A GAS CHROMATOGRAPH SYSTEM SIMILAR OR EQUIVALENT TO A PIONA / REFORMULYZER CONFIGURATION.

THE SYSTEM SHALL BE CAPABLE OF DETERMINING HYDROCARBON TYPES IN GASOLINE RANGE STREAMS, INCLUDING:

1. ISO-PARAFFINS
2. N-PARAFFINS
3. CYCLIC OLEFINS
4. N-OLEFINS
5. NAPHTHENES
6. AROMATICS

THE SYSTEM SHALL ALSO BE CAPABLE OF DETERMINING OXYGENATED COMPONENTS NORMALLY ADDED TO BIOFUELS, INCLUDING:

1. ETHANOL
2. MTBE
3. ETBE
4. TAME

THE SYSTEM MUST COMPLY WITH THE FOLLOWING REFERENCE METHODS:

1. ASTM D5443
2. ASTM D6839
3. ASTM D6293

THE SYSTEM SHALL BE CAPABLE OF ANALYSING THE FOLLOWING SAMPLE STREAMS:

1. LIGHT STRAIGHT NAPHTHA
2. STRAIGHT RUN NAPHTHA
3. HEAVY STRAIGHT RUN NAPHTHA

4. DEPENTANISED BOTTOMS
5. REFORMAT
6. ALKYLATE
7. ISOMERATE
8. PLATFORMATE
9. COD GASOLINE
10. GASOLINE BLENDS
11. GASOLINE WITH OXYGENATES
12. EQUIPMENT CONFIGURATION SHALL INCLUDE:
13. AUTO INJECTOR SYSTEM
14. FLAME IONIZATION DETECTOR (FID)

**COMPLETE HARDWARE AND SOFTWARE PACKAGE TO INTEGRATE, IDENTIFY, PROCESS
AND PRODUCE REPORTS IN ACCORDANCE WITH THE REFERENCED ASTM METHODS**

1. SCOPE OF SUPPLY SHALL INCLUDE:
2. ALL REQUIRED HARDWARE
3. ALL REQUIRED SOFTWARE AND LICENSES
4. REQUIRED SPARES AND CONSUMABLES
5. OPERATOR AND TECHNICAL TRAINING
6. WRITTEN GUARANTEE THAT THE SYSTEM IS UPGRADEABLE AND NOT NEAR
OBSOLESCENC