

## Crude Summary Report

| General Information |              | Molecules (%wt on crude) |      |                             |        |             |          |              |      |                        |      | Whole Crude Properties |      |                        |      |
|---------------------|--------------|--------------------------|------|-----------------------------|--------|-------------|----------|--------------|------|------------------------|------|------------------------|------|------------------------|------|
| Reference:          | HEBRON26C    | methane + ethane         | 0.00 | Density @ 15°C (g/cc)       | 0.8923 | Name:       | Hebron   | propane      | 0.01 | API Gravity            | 27.0 | isobutane              | 0.11 | Total Sulfur (% wt)    | 0.71 |
| Origin:             | Newfoundland | n-butane                 | 0.28 | Pour Point (°C)             | -6     | Assay Date: | 5/1/2026 | isopentane   | 0.07 | Viscosity @ 20°C (cSt) | 40.0 | n-pentane              | 0.04 | Viscosity @ 40°C (cSt) | 17.8 |
| Comments:           |              | cyclopentane             | 0.01 | Nickel (ppm)                | 3.9    |             |          | C6 paraffins | 0.10 | Vanadium (ppm)         | 2.2  | C6 naphthenes          | 0.13 | Total Nitrogen (ppm)   | 1903 |
|                     |              | benzene                  | 0.01 | Total Acid Number (mgKOH/g) | 0.58   |             |          | C7 paraffins | 0.21 | Mercaptan Sulfur (ppm) | 4.0  | C7 naphthenes          | 0.61 | Hydrogen Sulfide (ppm) | 0.0  |
|                     |              | toluene                  | 0.03 | Reid Vapor Pressure (kPa)   | 22.1   |             |          |              |      |                        |      |                        |      |                        |      |

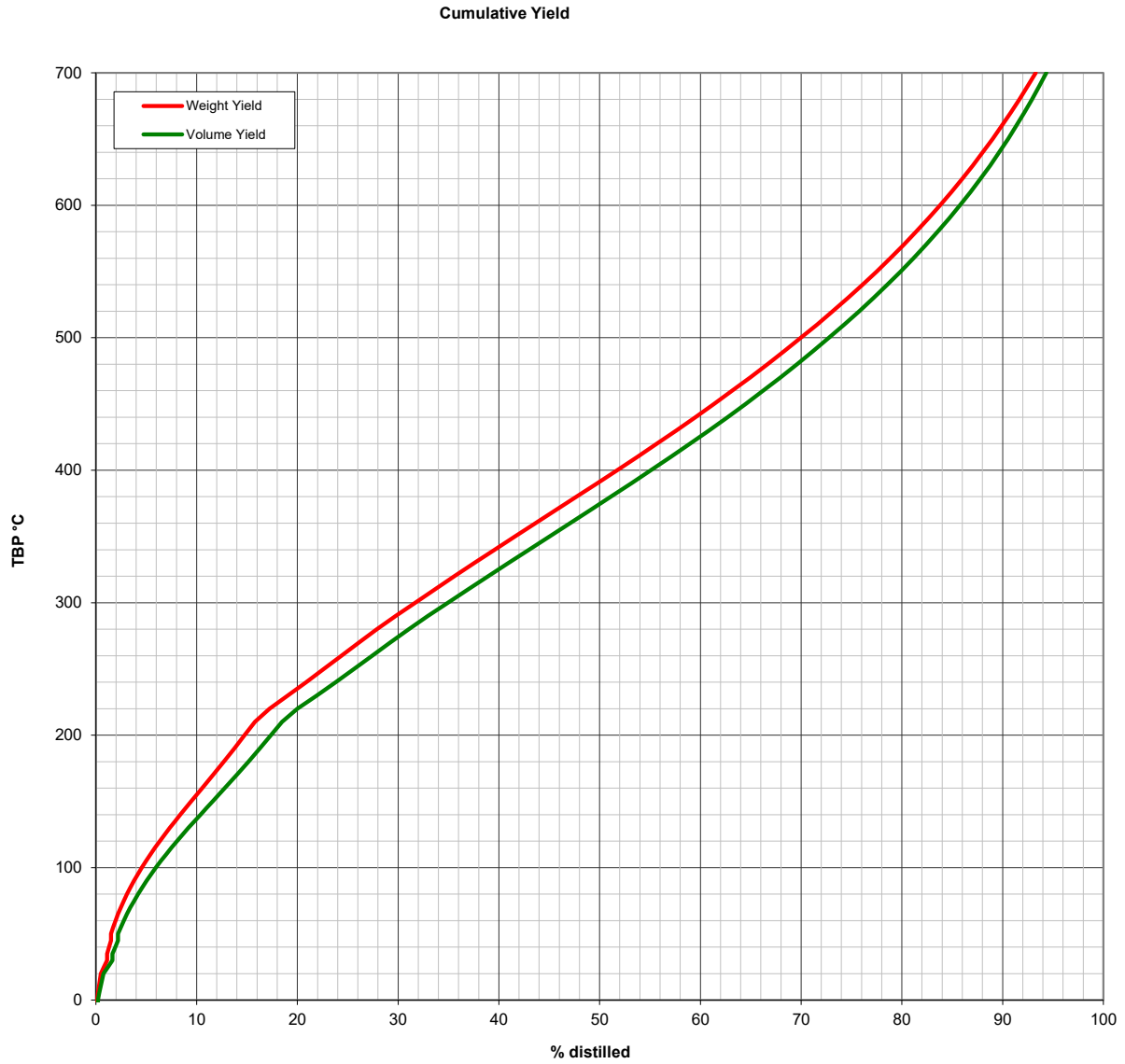
  

| Cut Data                    |        | Atmospheric Cuts |        |        |        |        |        |        |        |        |        | Vacuum Cuts |        |        |       |
|-----------------------------|--------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|-------|
| Start (°C)                  | IBP    | IBP              | C5     | 65     | 100    | 150    | 200    | 250    | 300    | 350    | 370    | 370         | 450    | 500    | 550   |
| End (°C)                    | FBP    | C4               | 65     | 100    | 150    | 200    | 250    | 300    | 350    | 370    | FBP    | 450         | 500    | 550    | FBP   |
| Yield (% wt)                |        | 0.4              | 1.8    | 2.4    | 4.9    | 5.3    | 7.9    | 9.1    | 9.9    | 4.1    | 54.3   | 15.7        | 8.6    | 7.5    | 22.5  |
| Yield (% vol)               |        | 0.6              | 2.5    | 2.9    | 5.6    | 5.8    | 8.3    | 9.3    | 10.1   | 4.1    | 50.9   | 15.4        | 8.3    | 7.1    | 20.1  |
| Cumulative Yield (% wt)     |        | 0.4              | 2.2    | 4.6    | 9.5    | 14.8   | 22.6   | 31.7   | 41.6   | 45.7   | 100.0  | 61.4        | 70.0   | 77.5   | 100.0 |
| Volume Average B.P. (°C)    | 384    | 39.6             | 84     | 126    | 174    | 227    | 276    | 325    | 360    | 533    | 409    | 474         | 524    | 654    |       |
| Density @ 15°C (g/cc)       | 0.8923 | 0.6486           | 0.7329 | 0.7748 | 0.8164 | 0.8492 | 0.8678 | 0.8751 | 0.8934 | 0.9510 | 0.9075 | 0.9294      | 0.9412 | 0.9965 |       |
| API Gravity                 | 27.0   | 86.6             | 61.5   | 51.1   | 41.8   | 35.1   | 31.5   | 30.1   | 26.8   | 17.2   | 24.3   | 20.7        | 18.8   | 10.4   |       |
| UOPK                        | 11.84  |                  |        | 11.56  | 11.39  | 11.37  | 11.47  | 11.71  | 11.69  | 11.90  | 11.79  | 11.87       | 11.98  | 11.90  |       |
| Molecular Weight (g/mol)    |        |                  |        | 109    | 135    | 168    | 204    | 251    | 285    | 538    | 341    | 438         | 554    | 1034   |       |
| Total Sulfur (% wt)         | 0.7    | 0.001            | 0.002  | 0.004  | 0.011  | 0.040  | 0.142  | 0.362  | 0.52   | 1.18   | 0.66   | 0.81        | 1.03   | 1.73   |       |
| Mercaptan Sulfur (ppm)      | 4.0    |                  | 3.2    | 5.3    | 5.3    | 2.5    | 0.9    |        |        |        |        |             |        |        |       |
| Total Nitrogen (ppm)        | 1903   |                  |        |        |        | 1      | 7      | 66     | 198    | 3463   | 523    | 1143        | 2273   | 6799   |       |
| Basic Nitrogen (ppm)        | 558    |                  |        |        |        | 1      | 5      | 35     | 86     | 1013   | 217    | 473         | 719    | 1873   |       |
| Total Acid Number (mgKOH/g) | 0.58   | 0.01             | 0.05   | 0.19   | 0.33   | 0.29   | 0.31   | 0.49   | 0.67   | 0.78   | 0.87   | 1.02        | 1.02   | 0.54   |       |
| Viscosity @ 20°C (cSt)      | 40.0   |                  |        |        |        | 1.43   |        |        |        |        |        |             |        |        |       |
| Viscosity @ 40°C (cSt)      | 17.8   |                  |        |        |        | 1.08   | 1.76   | 3.22   | 7.23   | 14.7   |        |             |        |        |       |
| Viscosity @ 50°C (cSt)      | 12.8   |                  |        |        |        |        | 1.51   | 2.63   | 5.49   | 10.4   | 1193   | 30.3        | 139    | 409    |       |
| Viscosity @ 60°C (cSt)      |        |                  |        |        |        |        |        |        |        |        | 553    | 20.2        | 79.2   | 211    |       |
| Viscosity @ 100°C (cSt)     |        |                  |        |        |        |        |        |        |        |        | 60.9   | 6.15        | 15.9   | 31.7   | 5130  |
| Viscosity @ 130°C (cSt)     |        |                  |        |        |        |        |        |        |        |        |        |             |        |        | 672   |
| Viscosity @ 150°C (cSt)     |        |                  |        |        |        |        |        |        |        |        |        |             |        |        | 242   |
| RON (Clear)                 |        | 81.8             | 72.6   | 62.0   | 67.9   |        |        |        |        |        |        |             |        |        |       |
| MON (Clear)                 |        | 80.2             | 74.9   | 63.4   | 53.4   |        |        |        |        |        |        |             |        |        |       |
| Paraffins (% wt)            | 15.5   | 94.9             | 39.2   | 20.9   | 16.5   |        |        |        |        |        |        |             |        |        |       |
| Naphthenes (%wt)            | 36.7   | 5.1              | 59.7   | 74.7   | 69.4   |        |        |        |        |        |        |             |        |        |       |
| Aromatics (% wt)            | 47.7   | 0.0              | 1.0    | 4.3    | 14.1   |        |        |        |        |        |        |             |        |        |       |
| Pour Point (°C)             | -6     |                  |        |        |        |        | -71    | -35    | -8     | 6      | 7      | 24          | 42     | 50     | 18    |
| Cloud Point (°C)            |        |                  |        |        |        |        | -69    | -33    | -6     |        |        |             |        |        |       |
| Freeze Point (°C)           |        |                  |        |        |        |        | -100   | -65    | -28    |        |        |             |        |        |       |
| Smoke Point (mm)            |        |                  |        |        |        |        | 21     | 16     | 13     |        |        |             |        |        |       |
| Cetane Index (D4737A)       |        |                  |        |        |        |        | 27     | 34     | 42     | 53     | 56     |             |        |        |       |
| Naphthalenes (% vol)        |        |                  |        |        |        |        | 0.9    | 8.9    | 11.7   | 12.9   |        |             |        |        |       |
| Aniline Point (°C)          |        |                  |        | 44.6   | 44.1   | 48.7   | 59.2   | 70.3   | 75.2   |        |        | 81.4        | 88.0   | 89.2   |       |
| Hydrogen (% wt)             | 12.7   | 16.5             | 15.0   | 14.5   | 13.8   | 13.0   | 13.0   | 12.9   | 12.7   |        |        | 12.5        | 12.4   | 12.5   |       |
| Total Wax (% wt)            | 3.8    |                  |        |        |        |        |        |        |        |        | 3.9    | 9.3         | 3.8    | 1.4    | 1.0   |
| C7 Asphaltenes (% wt)       | 1.2    |                  |        |        |        |        |        |        |        |        | 2.2    | 0.0         | 0.0    | 5.3    |       |
| Micro Carbon Residue (% wt) | 4.0    |                  |        |        |        |        |        |        |        |        | 7.4    | 0.1         | 1.2    | 17.5   |       |
| Vanadium (ppm)              | 2.2    |                  |        |        |        |        |        |        |        |        | 4.1    | 0.0         | 0.0    | 9.9    |       |
| Nickel (ppm)                | 3.9    |                  |        |        |        |        |        |        |        |        | 7.3    | 0.0         | 0.0    | 17.5   |       |
| Iron (ppm)                  | 1.5    |                  |        |        |        |        |        |        |        |        | 2.8    | 0.0         | 0.0    | 6.7    |       |
| Sodium (ppm)                | 1.0    |                  |        |        |        |        |        |        |        |        |        |             |        |        |       |
| Mercury (ppb)               | 2.0    |                  |        |        |        |        |        |        |        |        |        |             |        |        |       |
| Arsenic (ppb)               | 20     |                  |        |        |        |        |        |        |        |        |        |             |        |        |       |

This assay information is provided to you courtesy of ExxonMobil Technology & Engineering Company (EMTEC) and is based on a range of data and information. While care has been taken in preparing these materials, no representations, warranties or guarantees are made as to their accuracy, reliability, quality, correctness or completeness. Each user must make its own determination and judgment on applying any information in this assay. Any and all use of this information shall be the sole responsibility of the user, and the user releases EMTEC, its parent and its affiliates from any and all claims arising from its use and shall defend and hold EMTEC, its parent and its affiliates harmless from any third party claims arising from the user's application or use of the assay information.

Reference: **HEBRON26C**  
 Crude: **Hebron**

## Yield Distribution



**Cumulative Volume % Distilled at 10 Degree C (TBP) Intervals**

|     | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   |
|-----|------|------|------|------|------|------|------|------|------|------|
| 0   |      |      |      | 1.6  | 1.9  | 2.2  | 2.8  | 3.4  | 4.2  | 5.0  |
| 100 | 6.0  | 7.0  | 8.0  | 9.2  | 10.4 | 11.6 | 12.8 | 14.0 | 15.2 | 16.3 |
| 200 | 17.4 | 18.5 | 20.0 | 21.9 | 23.8 | 25.6 | 27.4 | 29.2 | 31.1 | 33.0 |
| 300 | 34.9 | 36.9 | 38.9 | 41.0 | 43.0 | 45.0 | 47.1 | 49.1 | 51.1 | 53.1 |
| 400 | 55.1 | 57.1 | 59.0 | 60.9 | 62.7 | 64.5 | 66.2 | 67.9 | 69.6 | 71.2 |
| 500 | 72.8 | 74.3 | 75.8 | 77.2 | 78.6 | 79.9 | 81.2 | 82.4 | 83.6 | 84.7 |