

# Lubrication Technologies, Inc. Lube Base Oils Reference Center Data

## API Group III Lube Base Stocks



**Richmond, CA**

| Base Stock | Nominal Viscosity at 100C, cSt (actual viscosity in parenthesis below the product name/number designation) |             |   |             |    |    |    |    |    |     |     |
|------------|--|-------------|---|-------------|----|----|----|----|----|-----|-----|
|            | 2  | 4           | 6 | 8           | 10 | 12 | 14 | 28 | 40 | 100 | 150 |
| UCBO       |  | 4R<br>(4.1) |   | 7R<br>(7.0) |    |    |    |    |    |     |     |

*Click on the Chevron logo above which will take you to the Chevron web site for complete specifications for Chevron base oils.*



**Melaka, Malaysia**

| Base Stock | Nominal Viscosity at 100C, cSt |             |             |   |    |    |    |    |    |     |     |
|------------|--------------------------------|-------------|-------------|---|----|----|----|----|----|-----|-----|
|            | 2                              | 4           | 6           | 8 | 10 | 12 | 14 | 28 | 40 | 100 | 150 |
| ETRO       |                                | 4<br>(4.25) | 6<br>(6.25) |   |    |    |    |    |    |     |     |



**Onsan, South Korea** Represented in US by



| Base Stock | Nominal Viscosity at 100C, cSt |             |             |            |             |    |    |    |    |     |  |
|------------|--------------------------------|-------------|-------------|------------|-------------|----|----|----|----|-----|--|
|            | 2                              | 4           | 6           | 8          | 10          | 12 | 14 | 28 | 40 | 100 |  |
| Ultra-S    | 2*<br>(2.2)                    | 3*<br>(3.3) | 4<br>(4.25) | 6<br>(6.0) | 8<br>(7.23) |    |    |    |    |     |  |

\* Ultra-S 2 and Ultra-S 3 do not meet minimum 120 VI and therefore are Group II base oils.



## NESTE OIL

### Porvoo, Finland

Base Stock

|         |       |       |       |       |       |       | Nominal Viscosity at 100C, cSt |    |    |     |     |
|---------|-------|-------|-------|-------|-------|-------|--------------------------------|----|----|-----|-----|
|         | 2     | 4     | 6     | 8     | 10    | 12    | 14                             | 28 | 40 | 100 | 150 |
| NEXBASE | 3020* | 3030* | 3043  | 3050  | 3060  | 3080  |                                |    |    |     |     |
|         | (2.2) | (3.0) | (4.3) | (5.0) | (5.9) | (7.9) |                                |    |    |     |     |

\* NEXBASE 3020 & 3030 technically are not Group III since their VI is less than 120



## NIPPON OIL

Your Choice of Energy

### JX/Nippon, Yokohama

Base Stock

|  |         |         |         |   |    |    | Nominal Viscosity at 100C, cSt |    |    |     |     |
|--|---------|---------|---------|---|----|----|--------------------------------|----|----|-----|-----|
|  | 2       | 4       | 6       | 8 | 10 | 12 | 14                             | 28 | 40 | 100 | 150 |
|  | 2       | 4       | 6       | 8 | 10 | 12 | 14                             | 28 | 40 | 100 | 150 |
|  | (2.714) | (4.023) | (6.507) |   |    |    |                                |    |    |     |     |



### Modrica, Bosnia and Herzegovina

Base Stock

|  |   |   |   |      |      | Nominal Viscosity at 100C, cSt |    |    |    |    |    |     |
|--|---|---|---|------|------|--------------------------------|----|----|----|----|----|-----|
|  | 2 | 3 | 4 | 5    | 6    | 8                              | 10 | 12 | 14 | 28 | 40 | 100 |
|  |   |   |   | HC-5 | HC-6 | HC-8                           |    |    |    |    |    |     |
|  |   |   |   | (5)  | (6)  | (8.1)                          |    |    |    |    |    |     |



### PetroChina (CNPC), China

Base Stock

|  |   |   |        |   |        |   | Nominal Viscosity at 100C, cSt |    |    |    |    |     |
|--|---|---|--------|---|--------|---|--------------------------------|----|----|----|----|-----|
|  | 2 | 3 | 4      | 5 | 6      | 8 | 10                             | 12 | 14 | 28 | 40 | 100 |
|  |   |   | KL 100 |   | KL 150 |   | 10                             |    |    |    |    |     |
|  |   |   | (4.3)  |   | (6.4)  |   | (9.27)                         |    |    |    |    |     |



NESTE OIL

**BAPCO-Neste, Sitrah, Bahrain**

Base Stock

|         | 2 |  | 4     |       | 6 |  | 8     |  | 10 |  | 12 |  | 14 |  | 28 |  | 40 |  | 100 |  | 150 |  |
|---------|---|--|-------|-------|---|--|-------|--|----|--|----|--|----|--|----|--|----|--|-----|--|-----|--|
| NEXBASE |   |  | 3043  | 3050  |   |  | 3080  |  |    |  |    |  |    |  |    |  |    |  |     |  |     |  |
|         |   |  | (4.3) | (5.0) |   |  | (7.9) |  |    |  |    |  |    |  |    |  |    |  |     |  |     |  |



**Cartagena, Spain**

Base Stock

|  | 2 |  | 4 |  | 6 |  | 8 |  | 10 |  | 12 |  | 14 |  | 28 |  | 40 |  | 100 |  | 150 |  |
|--|---|--|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|-----|--|-----|--|
|  |   |  |   |  |   |  |   |  |    |  |    |  |    |  |    |  |    |  |     |  |     |  |



**Shell-Qatar Petroleum, Ras Laffan, Qatar (Pearl GTL)**

Base Stock

|  | 2 |  | 3 |  | 4     |  | 5 |  | 6 |  | 8 |       | 10 |  | 12 |  | 14 |  | 28 |  | 40 |  | 100 |  |
|--|---|--|---|--|-------|--|---|--|---|--|---|-------|----|--|----|--|----|--|----|--|----|--|-----|--|
|  |   |  |   |  |       |  |   |  |   |  |   |       |    |  |    |  |    |  |    |  |    |  |     |  |
|  |   |  |   |  | 4*    |  |   |  |   |  |   | 8*    |    |  |    |  |    |  |    |  |    |  |     |  |
|  |   |  |   |  | (4.0) |  |   |  |   |  |   | (7.5) |    |  |    |  |    |  |    |  |    |  |     |  |

\* API Group III+/GTL base oils