

# Infineum D1240

## Description

Infineum D1240 is a minimum treat rate, cost-effective package designed to cover API performance categories for SJ/CF-4 to SB/CB. The performance is supported with engine testing at key specification levels. The claims are licensable at API SJ, CF/CF-2 and Detroit Diesel and passing data is available for key engine tests demonstrating performance at CF-4, SG, SF and CD categories. Where necessary the cascade is supported by either boosters or alternative packages expanding the logistics possibilities for customers.

## Performance

| Performance Level:   | SAE Viscosity Grade: | Mass %:                        | TBN, nominal: |
|----------------------|----------------------|--------------------------------|---------------|
| API SB/CB            | MONO, MULTI          | 2.0                            | -             |
| API SC/CC            | MONO                 | 2.0                            | -             |
| API SC/CC            | MULTI                | 2.3                            | -             |
| API SD/CC            | MONO                 | 2.5                            | -             |
| API SD/CC            | MULTI                | 2.8                            | -             |
| API SE/CC            | MONO                 | 3.0                            | -             |
| API SE/CC            | MULTI                | 3.5                            | -             |
| API SF/CD/CC         | MULTI, MONO          | 4.0                            | -             |
| Allison C3           | MONO                 | 4.0                            | -             |
| Caterpillar TO-2     |                      |                                |               |
| API SF/CF-2/CF       |                      | 4.0 + Booster at 1.3 %         | -             |
| DD 7SE270 Type 1/2/3 |                      |                                |               |
| API SG/CF/CD         |                      | 4.0 + Infineum D1243 at 1.55 % | -             |
| DC p227              |                      |                                |               |
| API SG/CF/CD         |                      | 4.0 + Infineum D1246 at 5.55 % | -             |
| DC p227              |                      |                                |               |
| API SJ/CF/CD         |                      | 4.6 + Infineum D1243 at 2.42 % | -             |
| API SJ/CF/CD         |                      | 4.6 + Infineum D1247 at 6.75 % | -             |
| API SF/CF-2/CF       |                      | 4.0 + Booster at 2.0 %         | 10.0          |
| API SF/CF-2/CF       |                      | 4.0 + Booster at 7.3 %         | 10.0          |
| API SG/CF-4          |                      | 4.0 + Booster at 3.45 %        | -             |
| API SG/CF-4          |                      | 4.0 + Booster at 9.05 %        | -             |
| API SG/CF-4          |                      | 4.0 + Booster at 3.9 %         | 10.0          |
| API SG/CF-4          |                      | 4.0 + Booster at 11.35 %       | 10.0          |
| API SJ/CF-4          |                      | 4.0 + Booster at 4.15 %        | -             |
| API SJ/CF-4          |                      | 4.95 + Booster at 4.15 %       | 10.0          |

Main visc. Grades covered are: Multigrade: 15W-40, 20W-40, 20W-50; Monograde: SAE 10W, 20W, 30, 40, 50 but coverage may vary depending on actual claim

\* Licensable quality

# CF quality claim in Mono grade only

Booster @ 2.0 % is Infineum D1243 @ 0.35 % + Infineum D1241 @ 0.95% + Infineum C9340 @ 0.7 %

Booster @ 7.3 % is Infineum D1243 @ 0.35 % + Infineum D1241 @ 0.95% + Infineum D1250 @ 6.0 %

Booster @ 3.45 % is Infineum D1243 @ 1.85 % + Infineum D1241 @ 1.6 %

Booster @ 9.05 % is Infineum D1243 @ 1.85 % + Infineum D1968 @ 7.2 %

Booster @ 3.9 % is Infineum D1243 @ 1.85% + Infineum D1241 @ 1.6 % + Infineum C9340 @ 0.45 %

Booster @ 11.35 % is Infineum D1243 @ 1.85% + Infineum D1241 @ 1.6 % + Infineum D1251 @ 7.9%

Booster @ 4.15 % is Infineum D1243 @ 2.55 % + Infineum D1241 @ 1.6 %

## Typical Inspections

| Property: | Value <sup>(a)</sup> : | Unit: | Method <sup>(b)</sup> : |
|-----------|------------------------|-------|-------------------------|
|-----------|------------------------|-------|-------------------------|

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|                             |      |          |            |
|-----------------------------|------|----------|------------|
| Base Number                 | 143  | mg KOH/g | ASTM D2896 |
| Flash Point Deg C           | 184  | °C       | ASTM D93   |
| Kinematic Viscosity @ 100 C | 46   | cSt      | ASTM D445  |
| Magnesium                   | 2.96 | %(m)     | ASTM D4951 |
| Phosphorus                  | 2.6  | %(m)     | ASTM D4951 |
| Zinc                        | 2.9  | %(m)     | ASTM D4951 |

(a)Not a specification, (b)Methods typically used by Infineum manufacturing plants

## Handling / Precautions

Follow precautions normally taken for handling lube oil stocks. This product is temperature sensitive. Do not heat over the maximum loading / unloading temperature to avoid possible release of extremely odorous alkyl mercaptans and/or toxic hydrogen sulfide.

Localized high temperatures should be avoided during heating, especially when product cannot be agitated. Electrical, steam or hot oil heating systems with a self limiting maximum temperature not exceeding 120 Deg. C/250 Deg. F (e.g. low pressure steam at 2 bar(g) or 30 psig) are recommended.

If product is held at cold temperatures (less than 5 Deg. C/40 Deg. F) for extended periods of time (>1 month), phase separation may occur. Product should be warmed to handling temperature and mixed before use.

|                              |                 |
|------------------------------|-----------------|
| Min Load/Unload Temp:        | 35 °C (95 ° F)  |
| Max Load/Unload Temp:        | 50 °C (122 ° F) |
| Vis @ Min Load/Unload Temp:  | 994 cSt         |
| Vis @ Max Load/Unload Temp:  | 390 cSt         |
| Maximum Storage Temperature: | 50 °C (122 ° F) |
| Do not reheat above:         | 50 °C (122 ° F) |

For detailed data please refer to the relevant MSDS.

## Further Information

For further information please contact your local Infineum affiliate or representative.

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