

iGAS-OIL 40 LONG LIFE

**HIGH PERFORMANCE EXTENDED LIFE
LOW ASH GAS ENGINE OIL**

BULWARK iGAS-OIL 40 LL is a long drain low ash, semi synthetic gas engine oil meant for use in high performance industrial gas engines. It is formulated superior performance semi synthetic base oil and advanced low ash additive for high output naturally aspirated and turbo-charged gas engines deployed in stationary applications.

BULWARK iGAS-OIL 40 LL is specially developed in accordance with requirements of the world leading gas engine manufactures such as GE Jenbacher, Perkins, Caterpillar, Deutz and others. This product is recommended for all naturally aspirated, turbocharged with or without SCR and Pilot injection gas engines in stationary applications running on sweet or dry natural gas, or associated petroleum gas and mixture of low-sulphur organic or lean gas.

PERFORMANCE LEVEL*

- GE-Jenbacher TA 1000-1109 series 2,3,4 (ver. A, B);
- GE-Jenbacher TA 1000-1109 series 6, (ver. C, E,F);
- WARTSILA 175SG, 220SG, 50SG, 34SG, 28SG & 25SG;
- WARTSILA 50DF, 34DF, 32DF & 20DF; man M 3271-2;
- PERKINS Engine series 4000;
- Caterpillar 3300, 3400, 3500, 3600 series (SEBU 6400);
- MTU BR 4000; MTU MLT 5074, A001061/29E (Category 1);
- CUMMINS QSV 81G, 91G, 60G;
- Guasdor FGLD, SFGLD
- Waukesha; MWM TR 0199-99-2105

KEY BENEFITS

- Excellent nitration control helps oil maintains its performance and provides extended service life.
- Synthetic base oils Improve oxidation stability and reduces deposit formation.
- Reduced oil thickening provides excellent lubrication, film thickness and reduce engine wear.

TYPICAL CHARACTERISTICS**

| Properties | Test Methods | iGAS-OIL 40 LL |
|------------------------------------|--------------|----------------|
| Density @ 15°C, Kg/m3 | ASTM D4052 | 0.870 |
| Kinematic Viscosity @ 100° C mm2/s | ASTM D445 | 13.32 |
| Kinematic Viscosity @ 40° C cSt | ASTM D445 | 116.2 |
| Viscosity Index | ASTM D2270 | 110 |
| Total Base Number, mg KOH/g | ASTM D2896B | 5.6 |
| Sulphated Ash, % | ASTM D874 | 0.41 |
| Flash Point, COC, °C | ASTM D92 | 262 |
| Pour Point °C | ASTM D97 | -27 |

* Performance levels indicated may include licensed API specs or specs that our products meet or exceed

** Typical Characteristics are typical values. Minor variations within the permissible tolerance limits may be expected on the final product.

STORAGE

All packages should be stored under cover. Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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