

# Balmerol® Gold Premium CI-4 Plus 15W-40

Premium Quality Heavy Duty Diesel Engine Oil

Technical Data Sheet

## Product Description:

Balmerol Gold Premium CI-4 Plus 15W-40 is a premium quality, high performance diesel engine oil recommended for heavy duty on and off-highway vehicles operating under severe conditions. It is especially formulated with new generation additive technology to meet the needs of ultra modern high output low emission diesel engines and exhibits excellent soot handling properties better than API CI-4, oil consumption control, rust & wear protection leading to extended drain intervals as compared to earlier API service categories.

Balmerol Gold Premium CI-4 Plus 15W-40 **meets** the following specifications:

- API Service Category CI-4 Plus / CI-4/ SL, CH-4/ CG-4
- ACEA E-7
- MB 228.3
- Volvo VDS-3
- MAN 3275
- Mack EO-N Premium Plus'03
- Cummins CES 20076/ 77/ 78
- Caterpillar ECF – 2

## Features & Benefits:

Excellent resistance to oxidation and thermal degradation

Clean performance at high temperature operation and less generation of sludge.

Longer Oil Drain Interval (ODI) and better engine protection

Higher TBN reserve

Better ability to handle sludge and soot generated in the engine.

***Balmerol Gold Premium CI-4 Plus 15W-40 has better soot handling capability than API CI-4 oils and leads to lower sludge formation***

## Applications / Recommendations:

Balmerol Gold Premium CI-4 Plus 15W-40 is recommended for use in high speed four stroke modern high output, low emission engines including those with Exhaust Gas Recirculation (EGR). Recommended for use in all modern diesel engines which are fitted with latest generation after treatment devices to meet EURO III and EURO IV emission norms.

Suitable for high performance turbocharged / naturally aspirated high performance diesel engines found in off-highway applications. Especially suited for Caterpillar, Cummins and Komatsu engines.

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## Typical Properties:

Balmerol Gold Premium CI-4 Plus 15W-40	
Properties	Gold Premium CI-4 Plus 15W-40
Appearance	Clear, bright and free from turbidity & sediment
SAE Viscosity Grade	15W-40
Viscosity, ASTM D 445, cSt @ 100°C	14.0 - 16.0
Viscosity Index, ASTM D 2270	125
Density @ 29.5 °C, gm/cc, ASTM D 1298	0.863
Pour Point, °C ASTM D 97	-27 max
Flash Point, °C ASTM D 92	215
TBN, mg KOH/g, ASTM D 2896	10.5
Sulphated Ash, % by weight, ASTM D 874	1.35
Foam stability after 10 min. of settling time, quantity of foam, ml, max	
a) at 24 °C	Nil
b) at 93.5 °C	Nil
c) at 24 °C after test at 93.5 °C	Nil
Noack Evaporation Loss, % max. (ASTM D 5800)	5
CCS @ -20 °C, cP (ASTM D 5293)	7000 (typical)

## Health and Safety:

Balmerol Gold Premium CI-4 Plus 15W-40 is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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