



SINOPEC AquaPrime series engine oil is a high performance engine oil designed for fishing boat high speed diesel engine applications. It can give good engine protection to help reduce friction, corrosion and prolong engine service life under severe conditions.

### ● APPLICATIONS

- Vessels, including fishing boats, ferries, launch etc, high speed diesel engine application.
- All kinds of heavy load, high supercharged generator set, emergency generator and lifeboat machines.

### ● FEATURES AND BENEFITS

- Excellent Engine Cleanliness

Outstanding detergency, dispersancy and lubricating performance to prevent carbon deposit and reduce friction under severe conditions.

- Anti-oxidation Stability

Excellent oxidation resistance and thermal stability, effectively prolong the service life of oil products.

- Alkalinity Retention

Outstanding alkalinity retention and good corrosion-proof properties to effectively prevent the corrosion from acidic substance generated from combustion of sulfur-containing fuel.

### ● PRODUCT AND ENVIRONMENTAL SAFETY

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

The SINOPEC trademark is registered and protected.

## AquaPrime CF-4 Engine Oil

### ● APPLICATIONS

- Vessels, including fishing boats, ferries, launch etc, high speed diesel engine application.
- All kinds of small high speed ship main engine, heavy load, high supercharged generator set, lifeboat machine and emergency generator.
- Marine applications where API CF-4 or lower specification is required.

### ● FEATURES AND BENEFITS

- Outstanding anti-wear performance to reduce the friction and wear-off of metallic components and extend the engine life.
- Improving neutralization ability of acidic products and protect engine parts from rust and corrosion.
- Outstanding detergency and dispersancy to control sediment formation and keep cleanliness of engine parts.
- Outstanding anti-oxidation ability and thermal stability to reduce the generation of oxides and extend the life of use.

### ● TYPICAL DATA

AquaPrime CF-4 Engine Oil		
SAE grade	15W-40	20W-50
Kinematic viscosity, ASTM D 445 cSt @ 100 oC	15.11	18.62
Viscosity index, ASTM D 2270	145	127
Density @ 15 oC, g/ml	0.870	0.888
Total base number, mgKOH/g, ASTM D2896	10.6	10.7
Pour point, oC, ASTM D97	-33	-27
Flash point, oC, ASTM D92	234	248

### ● SPECIFICATION AND REQUIREMENTS

SINOPEC AquaPrime Engine Oil meets the performance of requirements/specification	
API	CF-4



## AquaPrime CI-4 Engine Oil

### ● APPLICATIONS

- Vessels, including fishing boats, ferries, launch etc, high speed diesel engine application.
- All kinds of heavy load, high supercharged generator set, emergency generator and lifeboat machines.
- Marine applications where API CI-4 or lower specification is required.

### ● FEATURES AND BENEFITS

- Outstanding detergency, dispersancy and lubricating performance to prevent carbon deposit and reduce friction under severe conditions.
- Excellent oxidation resistance and thermal stability, effectively prolong the service life of oil products.
- Outstanding alkalinity retention and good corrosion-proof properties to effectively prevent the corrosion from acidic substance generated from combustion of sulfur-containing fuel.
- Designed for environmentally friendly diesel engines to meet the requirements of Euro IV emission engines.

### ● TYPICAL DATA

AquaPrime CI-4 Engine Oil		
SAE grade	15W-40	20W-50
Kinematic viscosity, ASTM D 445 cSt @ 40 oC	102.3	161.1
cSt @ 100 oC	15.49	17.65
Viscosity index, ASTM D 2270	135	120
Density @ 15 oC, g/ml	0.873	0.878
Total base number, mgKOH/g, ASTM D2896	12.2	12.3
Sulfated ash, wt%, ASTM D874	1.22	1.24
Pour point, oC, ASTM D97	-39	-33
Flash point, oC, ASTM D92	240	256

### ● SPECIFICATION AND REQUIREMENTS

SINOPEC AquaPrime Engine Oil meets the performance of requirements/specification	
API	CI-4
Mercedes-Benz	228.3
MAN	3275

