



SAE 5W-30
API CK-4
ACEA E6
ACEA E9
MB 228.51
VOLVO VDS 4.5
CUMMINS CES 20078
DEUTZ DQC IV-18 LA
MAN M 3677
IVECO (ACEA E6-2016)
DAF (ACEA E6-2016)
DETROIT DIESEL DDC93K222
SCANIA LDF-4
RENAULT RLD-3
MACK EOS-4.5
CATERPILLAR ECF-3

20 L (PM0717-20) 1000 L (PM0717-IBC)
60 L (PM0717-60)
208 L (PM0717-DR)

Innovative energy-saving bi-synthetic (PAO + esters) motor oil for heavy duty and high-speed diesel engines of the latest generation with and without turbocharging, operating in severe conditions on low sulphur fuel. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.85
Viscosity at 40 °C	D 445	cSt	62.40
Viscosity at 100 °C	D 445	cSt	14.14
Viscosity at -30 °C	D 5293	CP	5561
Viscosity index	D 2270		160
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-40
TBN	D 2896	mgKOH/g	10.06

We reserve the right to alter the general characteristics of our products in order to let our consumers benefit from the latest technical development.



Specifications:
SAE 15W-40
API CI-4 Plus
API CI-4/CH-4/SL
ACEA E7, A3/B4
Recommendation:
JASO DH-1
GLOBAL DHD-1
CATERPILLAR ECF-1-a/ECF-2
CUMMINS CES 20076/-77/-78
DETROIT DIESEL 93K215
DEUTZ DQC III
MACK EO-N / EO-M Plus
MAN M 3275-1
MB 228.1/228.3
RENAULT RLD-2
VOLVO VDS-3
MTU Type 2

5 L (PM0704-5) 10 L (PM0704-10)
20 L (PM0704-20) 60 L (PM0704-60)
208 L (PM0704-DR) 1000 L (PM0704-IBC)

Innovative all-weather mineral-synthetic (esters + HC-synthes) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. The oil complies with the Global Specification GLOBAL-DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998, operating in the most difficult conditions with increased mileage between oil changes that comply with current standards for the content of toxic substances in exhaust gases and installed on heavy vehicles (more than 3.9 tons).

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.89
Viscosity at 40 °C	D 445	cSt	107.02
Viscosity at 100 °C	D 445	cSt	14.16
Viscosity at -20 °C	D 5293	CP	7000
Viscosity index	D 2270		134
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-45
TBN	D 2896	mgKOH/g	10
Sulphate ash (% mass), max	D 874	%	1.20

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Specifications:
SAE 10W-40
API CI-4 Plus
API CI-4/CH-4/SL
ACEA E7, A3/B4
Recommendation:
JASO DH-1
GLOBAL DHD-1
CATERPILLAR ECF-2 / ECF-1-a
CUMMINS CES 20076/077/078
DETROIT DIESEL 93K215
DEUTZ DQC III
MACK EO-N / EO-M Plus
MAN M 3275
MB 228.3 / 228.1
MTU Type 2
RENAULT RLD-2
VOLVO VDS-3

5 L (PM0705-5) 10 L (PM0705-10)
20 L (PM0705-20) 60 L (PM0705-60)
208 L (PM0705-DR) 1000 L (PM0705-IBC)

Innovative all-weather semi-synthetic (esters + HC-synthes) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. The oil complies with the Global Specification GLOBAL-DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998, operating in the most difficult conditions with increased mileage between oil changes that comply with current standards for the content of toxic substances in exhaust gases and installed on heavy vehicles (more than 3.9 tons).

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	93.42
Viscosity at 100 °C	D 445	cSt	13.5
Viscosity at -25 °C	D 5293	CP	7000
Viscosity index	D 2270		148
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-45
TBN	D 2896	mgKOH/g	11.35
Sulphate ash (% mass), max	D 874	%	1.20
High shear rate viscosity at 150 °C	D 4741	CP	3.88
Noakc volatility test, mass/mass, max	D 5800	%	11.5

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SAE 10W-40
API CI-4
ACEA E7, E4
MB Approval 228.5
CUMMINS CES 20076/077/078
DETROIT DIESEL 93K215
DEUTZ DQC IV-10
MACK EO-N
MACK EO-M Plus
MAN M 3277 Approval
MAN M 3377
MTU Type 3 Approval
RENAULT RXD
RENAULT RLD-2
VOLVO VDS-3

10 L (PM0706-10)
20 L (PM0706-20) 208 L (PM0706-DR)
60 L (PM0706-60) 1000 L (PM0706-IBC)

All-weather modern synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at Mercedes-Benz, MAN and MTU centres and has their written approvals.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	89.59
Viscosity at 100 °C	D 445	cSt	13.68
Viscosity at -25 °C	D 5293	CP	4272
Viscosity index	D 2270		155
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-48
TBN	D 2896	mgKOH/g	13.48
Sulphate ash (% mass), max	D 874	%	1.35

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SAE 10W-40
API CK-4/CJ-4
ACEA E6/E9
DAF (ACEA E6)
IVECO (ACEA E6)
CATERPILLAR ECF-3
CUMMINS CES 20086
DETROIT DIESEL DDC 93K222
DEUTZ DQC IV-18 LA
MACK EOS-4.5 Approval
MAN M 3477 Approval
MAN M 3775
MB Approval 228.51
MB 228.31
RENAULT VI RLD-3 Approval
VOLVO VDS-4.5 Approval

10 L (PM0707-10) 1000 L (PM0707-IBC)
20 L (PM0707-20)
208 L (PM0707-DR)

All-weather synthetic motor oil for heavy-duty and high-speed diesel engines of the latest generation with and without turbocharger, operating in severe conditions on low sulphur fuel. The oil has successfully passed road and laboratory tests at VOLVO, Mercedes-Benz, MAN, MACK and RENAULT centres and has their written approvals.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	90.93
Viscosity at 100 °C	D 445	cSt	14.40
Viscosity at -25 °C	D 5293	CP	4067
Viscosity index	D 2270		164
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-38
TBN	D 2896	mgKOH/g	10.48
Sulphate ash (% mass), max	D 874	%	1

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SAE 5W-30
API CI-4
ACEA E4
ACEA E7
MB 228.5
VOLVO VDS-3
MAN M 3277
MAN M 3377
DEUTZ DQC IV-10
MTU Type 3
MACK EO-N
RENAULT RLD-2
CUMMINS CES 20076
CUMMINS CES 20077
CUMMINS CES 20078
DETROIT DIESEL 93K215

10 L (PM0708-10) 1000 L (PM0708-IBC)
20 L (PM0708-20)
208 L (PM0708-DR)

Energy-saving synthetic (PAO-based) motor oil for heavy duty and high-speed diesel engines of the latest generation with and without turbocharging, operating in difficult conditions.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.85
Viscosity at 40 °C	D 445	cSt	89.37
Viscosity at 100 °C	D 445	cSt	11.98
Viscosity at -30 °C	D 5293	CP	6550
Viscosity index	D 2270		155
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-48
TBN	D 2896	mgKOH/g	13.70
Sulphate ash (% mass), max	D 874	%	1.20
Noakc volatility test, mass/mass, max	D 5800	%	10.8

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SAE 5W-40
API CI-4/SL
ACEA E7
ACEA E4
MB 228.5
MACK EO-N
MTU Type 3
DEUTZ DQC IV-10
MAN M 3277
RENAULT RLD-2
VOLVO VDS-3

10 L (PM0710-10) 1000 L (PM0710-IBC)
20 L (PM0710-20)
208 L (PM0710-DR)

The universal all-season synthetic engine oil for modern high-load and high-speed diesel engines with and without turbocharging, operating in harsh conditions and at low ambient temperatures.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.85
Viscosity at 40 °C	D 445	cSt	87.92
Viscosity at 100 °C	D 445	cSt	13.57
Viscosity at -30 °C	D 5293	CP	6550
Viscosity index	D 2270		157
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-45
TBN	D 2896	mgKOH/g	13.70
Sulphate ash (% mass), max	D 874	%	1.35
Noakc volatility test, mass/mass, max	D 5800	%	11

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SAE 10W-30
API CI-4 Plus
API CI-4/CH-4/SL
ACEA E7, A3/B4
VOLVO VDS-3
MAN M 3275
MB 228.3/228.1
MTU Type 2
MACK EO-N/EO-M Plus
RENAULT RLD-2
JASO DH-1
CUMMINS CES 20076/077/078
CATERPILLAR ECF-2
CATERPILLAR ECF-1a
GLOBAL DHD-1
DETROIT DIESEL 93K215
DEUTZ DQC-III

10 L (PM0712-10) 1000 L (PM0712-IBC)
20 L (PM0712-20)
208 L (PM0712-DR)

Innovative energy-saving bi-synthetic (PAO + esters) motor oil for heavy duty and high-speed diesel engines of the latest generation with and without turbocharging, operating in severe conditions on low sulphur fuel. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions. All-weather semi-synthetic (HC synthesis) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. Designed specifically to protect machinery and benefit most out of it regardless of operating conditions.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	69.88
Viscosity at 100 °C	D 445	cSt	10.68
Viscosity at -25 °C	D 5293	CP	5380
Viscosity index	D 2270		141
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-38
TBN	D 2896	mgKOH/g	11.55

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SAE 15W-40
API CJ-4/SN
ACEA E7
ACEA E9
JASO DH-2
MB 228.31
CATERPILLAR ECF-2
CATERPILLAR ECF-3
CUMMINS CES 20076/077/081
DEUTZ DQC III-10 LA
MACK EO-O Premium Plus Approval
MAN M 3775
RENAULT RLD-3 Approval
VOLVO VDS-4 Approval
SCANIA Low Ash
DETROIT DIESEL 93K218
MTU Type 2.1

20 L (PM0714-20) 1000 L (PM0714-IBC)
60 L (PM0714-60)
208 L (PM0714-DR)

Innovative all-weather ester-containing synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	94.16
Viscosity at 100 °C	D 445	cSt	14.03
Viscosity at -25 °C	D 5293	CP	3214
Viscosity index	D 2270		153
Flash point COC	D 92	°C	230
Pour point	D 97	°C	-40
TBN	D 2896	mgKOH/g	9.62
Sulphate ash (% mass), max	D 874	%	1.0

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SAE 10W-30
API CJ-4/CK-4
ACEA E6/E7
ACEA E9
JASO DH-2
MB 228.31/228.51/235.28
SCANIA Low Ash
MAN M 3677/3477
VOLVO VDS-4 Approval
RENAULT Truck RLD-3 Approval
MACK EO-O Premium Plus Approval
MACK EO-O Premium Plus -07
MTU Type 3.1
DEUTZ DQC IV-10 LA
CATERPILLAR ECF-2/-3
CUMMINS CES 20081
DETROIT DIESEL DDC 93K218
VOITH Retarder Class B

1000 L (PM0720-IBC)

Innovative all-weather ester-containing synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

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SAE 10W-30
API CK-4/SN
API CJ-4/CI-4 Plus
ACEA E6
ACEA E9
JASO DH-2
VOLVO VDS-4.5 Approval
CUMMINS CES 20086/078
RENAULT VI RLD-3 Approval
RENAULT Truck RLD-4
FORD WSS-M2C171-F1
MB 228.31
DETROIT DIESEL DDC93K222/K223
MACK EOS-4.5 Approval
MTU Type 2.1
DEUTZ DQC III-10 LA
DEUTZ DQC III-18 LA
CATERPILLAR ECF-3
ALLISON TES-439
MAN M 3775/3575

10 L (PM0721-10) 1000 L (PM0721-IBC)
20 L (PM0721-20)
208 L (PM0721-DR)

Innovative all-weather ester-containing synthetic motor oil for heavy-duty and high-speed diesel engines of the latest generation with and without turbocharger, operating in severe conditions on low sulphur fuel. The oil has successfully passed road and laboratory tests at VOLVO, MACK and RENAULT centres and has their written approvals.

Characteristics	Method	Unit	Value
Density at 15 °C	D 1298	kg/l	0.87
Viscosity at 40 °C	D 445	cSt	72.11
Viscosity at 100 °C	D 445	cSt	11.75
Viscosity at -25 °C	D 5293	CP	3374
Viscosity index	D 2270		158
Flash point COC	D 92	°C	230
Pour point	D 97	°C	-40
TBN	D 2896	mgKOH/g	9.14
Sulphate ash (% mass), max	D 874	%	1.0

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