

# CHAMPION CORS COMBI 10W30 LA

High performance formulation specifically developed for the lubrication of equipment used in construction, agriculture and public works machines. It offers considerable fuel saving and covers a wide set of applications such as engines, hydraulic systems, manual and powershift transmissions.

## APPLICATIONS

Engine application: This oil is advised for the lubrication of heavy duty diesel engines and vehicles with and without particulate filter, it meets the requirements of the latest engine technologies with emission control systems Stage IIIB, Stage IV Final and Tier 4i, Tier 4 Final, as well as older generations (Stage I, II, IIIA, Tier 1, 2, 3). Gearboxes, powershift or manual, power take-off. Hydraulic systems of agricultural tractors and off-highway equipment.

## FEATURES

Anti-wear and oxidation stability: proven protection of critical parts

Cold start: excellent fluidity at low temperature

## SPECIFICATIONS

<b>ACEA</b>	E9/E7/E5	<b>CUMMINS</b>	CES 20081/78/77/76
<b>API</b>	CJ-4/CI-4 Plus/CI-4/CH-4	<b>DEUTZ</b>	DQC-III-10/10LA
<b>API</b>	GL-4/SAE30	<b>GLOBAL</b>	DHD-1
<b>ISO</b>	VG 46[After 100h]/HV	<b>KOMATSU</b>	CLUTCH: TO-10,30
<b>JASO</b>	DH-1/DH-2	<b>KOMATSU</b>	HO-46 [HV]
<b>JCMA</b>	HK 46W[extend.drain]	<b>MACK</b>	EO-O Premium Plus
<b>ALLISON</b>	C4	<b>MAN</b>	M3275-1/M3575
<b>CASE</b>	MS1230	<b>MTU</b>	Oil Category 2 / 2.1
<b>CATERPILLAR</b>	ECF-3/ECF-2/ECF-1a	<b>RENAULT</b>	RLD-2/RLD-3
<b>CATERPILLAR</b>	HYDO ADVANCED 10/30	<b>VOLVO</b>	VDS-3/VDS-4
<b>CATERPILLAR</b>	TO-4 [SAE10W,30]	<b>ZF</b>	TE-ML 07D

## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.860
Kinematic viscosity at 40°C	ASTM D445	mm²/s	74.5
Kinematic viscosity at 100°C	ASTM D445	mm²/s	11.8
Viscosity index	ASTM D2270		153
B.N. [HCL04 method]	ASTM D2896	mg KOH/g	10.2
Pour point	ASTM D6892	°C	-39
CCS viscosity at -25°C	ASTM D5293	mPa.s	5800
Flash Point COC	ASTM D92	°C	224

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

### CHAMPION CHEMICALS NV

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