

# CHAMPION XRS 10W-30 FE

High performance ACEA E11 / API CK-4 formulation specifically developed for the lubrication of equipment used in construction, agriculture and public works machines. It offers outstanding 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

### CHAMPION CHEMICALS NV

G. Gilliatstraat 52 – 2620 Hemiksem – Belgium

Tel. +32 3 870 00 00

[www.championlubes.com](http://www.championlubes.com)



## SPECIFICATIONS

<b>ACEA</b>	A3/B4	<b>MAN</b>	M3775
<b>ALLISON</b>	C4	<b>DAF</b>	PSQL 2.1 E
<b>ALLISON</b>	TES 439	<b>API</b>	CJ-4/CI-4 Plus/CI-4/CH-4
<b>API</b>	CK-4	<b>ACEA</b>	E11
<b>API</b>	GL-4/SAE30	<b>DAIMLER TRUCK</b>	DTFR 15B110
<b>API</b>	SL	<b>DAIMLER TRUCK</b>	DTFR 15C100
<b>CASE</b>	MS1230	<b>ACEA</b>	E9-16/E7/E5
<b>CATERPILLAR</b>	ECF-3/ECF-2/ECF-1a	<b>CASE</b>	MAT 3509
<b>CATERPILLAR</b>	HYDO ADVANCED 10/30	<b>CASE</b>	MAT 3571
<b>CATERPILLAR</b>	TO-4 [SAE10W,30]	<b>CASE</b>	MAT 3572
<b>DETROIT DIESEL</b>	DFS 93K222	<b>CASE</b>	MAT 3622
<b>DEUTZ</b>	DQC-III-10/10LA	<b>CASE</b>	Tier 4F engines
<b>GLOBAL</b>	DHD-1	<b>CATERPILLAR</b>	HYDO ADVANCED 10W, 20-30
<b>ISO</b>	VG 46[After 100h]/HV	<b>CATERPILLAR</b>	SATO
<b>JASO</b>	DH-1/DH-2	<b>CUMMINS</b>	CES 20086/81/78/77/76
<b>JCMA</b>	HK 46W[extend.drain]	<b>EATON</b>	GEARBOXES
<b>KOMATSU</b>	CLUTCH: TO-10,30	<b>JCMA</b>	HK VG46L [Japan.OEM's]
<b>KOMATSU</b>	HO-46 [HV]	<b>KOMATSU</b>	GEARBOXES
<b>MACK</b>	EO-0 Premium Plus	<b>KOMATSU</b>	HO-MVK
<b>MACK</b>	approval EO-S 4.5	<b>KOMATSU</b>	H056-HE
<b>MAN</b>	M3275-1/M3575	<b>KOMATSU</b>	Tier 4F engines
<b>MB</b>	228.3	<b>LIEBHERR</b>	Hydraulic Systems
<b>MB</b>	228.31	<b>LIEBHERR</b>	Tier 4F engines
<b>MTU</b>	Oil Category 2 / 2.1	<b>DANA</b>	GEARBOXES
<b>RENAULT</b>	RLD-4	<b>HITACHI</b>	Tier 4F engines
<b>VOLVO</b>	VDS-3/VDS-4	<b>PERKINS</b>	Tier 4F engines
<b>VOLVO</b>	approval VDS-4.5	<b>RENAULT</b>	RLD-2
<b>ZF</b>	TE-ML 07D	<b>RENAULT</b>	approval RLD-3
<b>DEUTZ</b>	approval DQC-III-18 LA	<b>CATERPILLAR</b>	MTO
<b>FORD</b>	WSS-M2C171-F1		

## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.856
Kinematic viscosity at 40°C	ASTM D445	mm²/s	74.0
Kinematic viscosity at 100°C	ASTM D445	mm²/s	11.9
Viscosity index	ASTM D2270		157
B.N. [HClO4 method]	ASTM D2896	mg KOH/g	10
Pour point	ASTM D6892	°C	-39
Flash Point COC	ASTM D92	°C	222

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

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