

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, wet brakes, 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. Wet brakes.

FEATURES

Anti-wear and oxidation stability: proven protection of critical parts
Cold start: excellent fluidity at low temperature

SPECIFICATIONS

ACEA	A3/B4	CATERPILLAR	ECF-3/ECF-2/ECF-1a
ACEA	E11	CATERPILLAR	HYDO ADVANCED 10/30
ACEA	E3	CATERPILLAR	HYDO ADVANCED 10W, 20-30
ACEA	E9-16/E7/E5	CATERPILLAR	MTO
AFNOR	NF E 68-603 E	CATERPILLAR	SATO
API	CG-4	CATERPILLAR	TO-2
API	CJ-4/CI-4 Plus/CI-4/CH-4	CATERPILLAR	TO-4 [SAE10W,30]
API	CK-4	CATERPILLAR	TO-4M [SAE 10W30]
API	GL-4/SAE30	CUMMINS	CES 20086/81/78/77/76
API	GL-5 [Low speed/high torque]	DAF	PSQL 2.1 E
API	SF/CE	DANA	GEARBOXES
API	SN	DETROIT DIESEL	DFS 93K215
DIN	51524 T3 HVLDP	DETROIT DIESEL	DFS 93K218
ISO	VG 46[After 100h]/HV	DETROIT DIESEL	DFS 93K222
JASO	DH-1/DH-2	DEUTZ	approval DQC-III-18 LA
JCMA	HK 46W[extend.drain]	DEUTZ	DQC-III-10/10LA
ALLISON	C4 [Agriculture applic.]	DEUTZ	TTCD
ALLISON	TES 439	DIFR	15B110
CASE	MAT 3509	DIFR	approval 15C100
CASE	MAT 3525	EATON VICKERS	I-280-S
CASE	MAT 3526	EATON VICKERS	M-2950-S
CASE	MAT 3571	EATON	GEARBOXES
CASE	MAT 3572	FORD	ESN-M2C134 C/D
CASE	MAT 3622	FORD	ESN-M2C159 B/C
CASE	MS1230	FORD	FNH 82009201
CASE	Tier 4F engines	FORD	WSS-M2C171-F1

CHAMPION CHEMICALS NV

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GLOBAL	DHD-1	MB	228.3
HITACHI	Tier 4F engines	MB	228.31
JCB	Standard 4000/2500	MF	M 1135
JCMA	HK VG46L [Japan.OEM's]	MF	M 1139
JD	J20C	MF	M 1143
JD	J27	MF	M 1144
JD	JDQ-78X	MF	M 1145
KOMATSU	CLUTCH: T0-10,30	MTU	Oil Category 2 / 2.1
KOMATSU	GEARBOXES	NH	NH 030C
KOMATSU	H0-46 [HV]	NH	NH 410B
KOMATSU	H056-HE	NH	NH 420A
KOMATSU	H0-MVK	PERKINS	Tier 4F engines
KOMATSU	KES 07.851.1	RENAULT	approval RLD-3
KOMATSU	KES 07.851.2	RENAULT	RGD
KOMATSU	KES 07.868.1	RENAULT	RLD
KOMATSU	MICRO CLUTCH TEST [JCMAS]	RENAULT	RLD-2
KOMATSU	Tier 4F engines	RENAULT	RLD-4
LIEBHERR	Hydraulic Systems	RENAULT	RXD
LIEBHERR	Tier 4F engines	Sauer Sunstrand/Danfoss	Hydro Static Trans Fluid
MACK	approval EO-S 4.5	VOLVO	approval VDS-4.5
MACK	EO-M PLUS	VOLVO	VDS-3/VDS-4
MACK	EO-N	ZF	TE-ML 03A
MACK	EO-N Premium Plus	ZF	TE-ML 05K
MACK	EO-O Premium Plus	ZF	TE-ML 06A
MAN	271	ZF	TE-ML 06B
MAN	M3275-1/M3575	ZF	TE-ML 06C
MAN	M3775	ZF	TE-ML 07B
MB	227.1	ZF	TE-ML 07D

TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.856
Kinematic viscosity at 40°C	ASTM D445	mm ² /s	74.0
Kinematic viscosity at 100°C	ASTM D445	mm ² /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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