

# CHAMPION XRS 15W-40

High performance formulation specifically developed for the lubrication of equipment used in construction, agriculture and public works machines. Particularly suited for use with lower quality fuels, with high sulfur content. It covers a wide set of applications such as engines, hydraulic systems, manual and powershift transmissions.

## APPLICATIONS

Engine application: This higher TBN oil is advised for the lubrication of heavy duty diesel low-emission engines without particulate filter (Euro II, Euro III and some Euro IV engines). Gearboxes, powershift or manual, power take-off. Hydraulic systems of agricultural tractors and off-highway equipment.

## FEATURES

Total engine protection: outstanding engine cleanliness and durability

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

## SPECIFICATIONS

<b>ACEA</b>	E5	<b>MB</b>	228.3
<b>ACEA</b>	E7	<b>MTU</b>	Oil Category 2
<b>ALLISON</b>	C4	<b>RENAULT</b>	RLD
<b>API</b>	CH-4	<b>RENAULT</b>	RLD-2
<b>API</b>	CI-4	<b>VOLVO</b>	VDS-3
<b>API</b>	GL-4	<b>ZF</b>	TE-ML 07D
<b>CATERPILLAR</b>	ECF-2	<b>DAIMLER TRUCK</b>	DTFR 15B110
<b>CATERPILLAR</b>	TO-4	<b>CATERPILLAR</b>	TO-4M
<b>CUMMINS</b>	CES 20076	<b>KOMATSU</b>	HO-68
<b>CUMMINS</b>	CES 20077	<b>NH</b>	NH 330H
<b>CUMMINS</b>	CES 20078	<b>ISO</b>	VG 68 (After 100h)/HV
<b>GLOBAL</b>	DHD-1	<b>JCMA</b>	HK 68W
<b>JASO</b>	DH-1	<b>CASE</b>	MS1230 (Hot Countries)
<b>MAN</b>	M3275	<b>KOMATSU</b>	CLUTCH: TO-40

## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.890
Kinematic viscosity at 40°C	ASTM D445	mm²/s	101
Kinematic viscosity at 100°C	ASTM D445	mm²/s	13.9
Viscosity index	ASTM D2270		139
B.N. [HClO4 method]	ASTM D2896	mg KOH/g	15.4
Pour point	ASTM D6892	°C	-36
Flash Point COC	ASTM D92	°C	220

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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