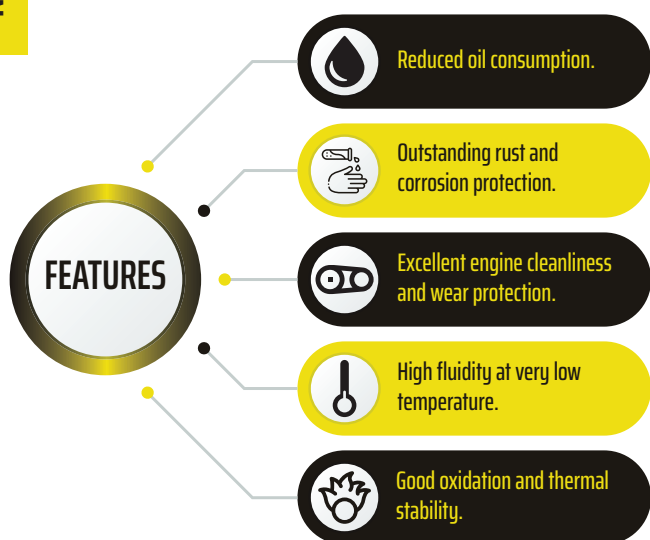




# SHIELD - DIESEL ENGINE OIL SAE 15W40

DESCRIPTION

Shield's Diesel Engine Oil SAE 15W40 is a superior quality heavy-duty multigrade lubricant for diesel engines. It is blended from premium quality virgin base oils and advanced additives that offer the best possible lubrication. It assures excellent protection against high temperature engine deposits, oil degradation, and forms a thick oil film that protects engine parts from friction and wear.



### PERFORMANCE LEVELS:

- API CK4, CJ4, C14, CH4, CF4.
- CUMMINS CES 20081, CES 20086.
- Mack EOS 4.5, EO-O Premium Plus-07.
- CATERPILLAR ECF-3, ECF-2, ECF-1a.
- DAIMLER MERCEDES-BENZ MB 228.31, MB 228.3.
- VOLVO VDS-4.4, VDS-3.
- RENAULT VI RLD-4, RLD-3.
- ACEA E7-16 / E9-16.
- ACEA E3-B4 -08.
- MAN 3275 / 3575.
- FORD WSS - M2 C171 - F1.
- DETROIT DIESEL 93K222 / 93K218
- MTU TYPE 2.1.
- DEUTZ DQC111 - 10LA.

## APPLICATIONS:

The Shield Diesel Engine Oil SAE 15W40 is recommended for mixed fleets of automotive diesel truck manufacturers, on-highway light and heavy-duty trucking, and off-highway industries including: construction, mining, quarrying, agriculture and diesel generator sets.

## TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	API Grade / Performance Level				
			15W40 CK4	15W40 CJ4	15W40 C14	15W40 CH4	15W40 CF4
1	Density @ 15°C	ASTM D 1298	0.8940	0.8940	0.8940	0.8940	0.8940
2	Viscosity @ 40°C	ASTM D 445	120.08	120.08	119.77	119.8	119.8
3	Viscosity @ 100°C	ASTM D 445	15.70	15.70	15.35	15.35	15.35
4	Viscosity Index	ASTM D 2270	138	138	134	134	134
5	Flash Point COC, °C	ASTM D 92	230	226	226	226	226
6	Pour Point, °C	ASTM D 97	-30	-30	-27	-27	-27
7	Total Base Number, mgKOH/g	ASTM D 2896	11	11	11	11	11
8	Color	ASTM D 1500	12.5	12.5	12.5	12.5	12.5
9	Appearance	ASTM D 4176	C & B	C & B	C & B	C & B	C & B
10	Phosphorus, wt%	ASTM D 4951	0.09	0.12	0.12	.012	0.1
11	Sulfur, wt%	ASTM D 2622	0.3	0.45	0.45	0.45	0.4
12	Sulfated Ash, wt%	ASTM D 874	0.99	1.2	1.4	1.4	1.4

\*Exact specifications may slightly vary from the above, but within the international standards