



**PRODUCT
DATA SHEET**

DAVID WEBER OIL CO.

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GIBRALTAR DIESEL EXHAUST FLUID

Urea 32.5% - solution in water

Characteristics	Unit	Limits		Test method
		Min	Max.	
Urea content	%(m/m)	31.8	33.2	ISO 22241-2 Annex B ISO 22241-2 Annex C
Density at 20°C	kg/m ³	1087	1093	ISO 3675 or ISO 12185
Refractive index at 20°C	-	1.3814	1.3843	ISO 22241-2 Annex C
Alkalini as NH ₃	%(m/m)	-	0.2	ISO 22241-2 Annex D
Biuret	%(m/m)	-	0.3	ISO 22241-2 Annex E
Aldehydes	mg/kg	-	5	ISO 22241-2 Annex F
Insoluble matter	mg/kg	-	20	ISO 22241-2 Annex G
Phosphate (PO ₄)	mg/kg	-	0.5	ISO 22241-2 Annex H
Calcium	mg/kg	-	0.5	ISO 22241-2 Annex H
Iron	mg/kg	-	0.5	
Copper	mg/kg	-	0.2	
Chromium	mg/kg	-	0.2	
Nickel	mg/kg	-	0.2	
Aluminum	mg/kg	-	0.5	
Magnesium	mg/kg	-	0.5	
Sodium	mg/kg	-	0.5	
Potassium	mg/kg	-	0.5	
Identity	-	Identical to reference		

APPLICATIONS/SPECIFICATIONS

API CK-4,CJ-4,CI-4, CI-4 Plus CH-4, CG-4, CF-4, CF
ACEA E9-16, E9-08 & E7-04
Caterpillar ECF-3, ECT-2, ECF-1a,TO-2
Cummins CES 20086, 20081,20077 & 20076
Detroit Diesel 93K222, 93K218, 93K214, 7SE270, PG PGOS
Deutz DQC III-10 LA
JASO DH-2
Mack EOS-4.5, EO-O Premium Plus, EO-M, EO-N Premium Plus
MAN 3575
Mercedes-Benz 228.31
MTU MTL 5044 Type 2.1
Renault VI RLD-3
Volvo VDS-4.5, VDS-4, VDS-3, VDS-2

TYPICAL INSPECTIONS

Sulfated Ash, % Weight	1.0
Viscosity, cSt @ 100°C	14.8
TBN, ASTM D-2896	10
Calcium, % Weight	0.108
Magnesium, % Weight	0.083
Zinc, % Weight	0.123
Phosphorus, % Weight	0.108
Molybdenum	.0045
High Temp/High Shear, cP @ 150°C	4.1
Pour Point, °C	-39
Flash Point, °C	229