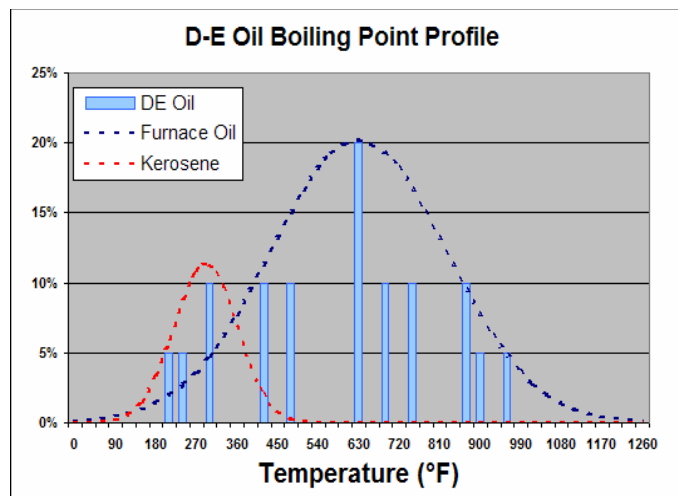


D-E Oil™

Control No.: PDS-DEO.Rev12BC081010

Product Data Sheet

Typical Physical Properties	
Test	Value
Kinematic Viscosity 40°C (cSt)	6.7
API Gravity	22
Specific Gravity (@60°F)	0.93
Pour Pt. (°C)	-12.2
Cloud Pt (°C)	-9
Vapor Pressure (psi)	2.0
Flash Pt. (°C)	12
Calorific Value Btu/lb	18,250
BS&W (%)	Trace
Corrosion (copper & pH)	Non-Corrosive
Coking 600°F/215°F/106°F (wt%)	0.2
Int. Distillation Pt. °C	86
10% Volatile at °C	164
50% Volatile at °C	331
90% Volatile at °C	474
Final Distillation Pt. °C	541



Oil Elemental Composition	
Carbon (wt%)	87
Hydrogen (wt%)	11
Nitrogen (Fuel Bound) (wt%)	0.48
Sulfur (wt%)	0.8
Oxygen (by difference) (wt%)	0.72
Chlorine (ppm)	11
Fluorine (ppm)	BRL of 1.0
Na + K (ppm)	BRL of 5.0
Vanadium (ppm)	BRL of 0.6
Calcium (ppm)	BRL of 1.0
Silicon (ppm)	18
Lead (ppm)	BRL of 1.0

BRL – Below Reporting Limit

Typical Material Balance (wt%)	
C₆ Insolubles (non-asphaltene)	1.4
Elemental Carbon	≤ 0.6
Ash	≤ 0.8
Organic Constituents (wt%)	
Aromatics	43.9
Mono-aromatics	30.0
Di-aromatics	9.2
Bi-Phenyls	4.7
Poly-aromatics	0.01
(Cyclo)Alkanes(enes)	44.2
Polar Organics	11.3

Historical data was compiled over time and values will vary from lot to lot.