



## Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org  
412-365-1000

### CERTIFICATE OF ANALYSIS

**TMC Product ID:** DFA 24  
**Product Purpose:** Reference Calibration Fluid for ASTM D6079 (HFRR)  
**Product Description:** Diesel Fuel  
**TMC Batch Number:** 20231025A  
**Certificate Issue Date:** 2025-04-07

Product Appearance: Clear and bright

#### Properties

<u>Method</u>	<u>Test Name</u>	<u>Result</u>	<u>Units</u>
ASTM D93	Flash Point	128.5	°C
ASTM D4052	Digital Density at 15°C	0.9008	g/mL

Diesel Fuel Lubricity  
Reference Targets ASTM D6079  
High Frequency Reciprocating Rig (HFRR) 60°C

		Wear Scar Diameter, 99.7% Confidence Interval		
Fluid Name	Reference Period	Target, µm	Lower Acceptance, µm	Upper Acceptance, µm
DFA 24 High lubricity reference (Fluid A Lot 24)	02/23/2024 – 06/30/2025	399	365	434

Fluid batch target performance and acceptance limits are established and supplied to the TMC by the ASTM D02.E0 Diesel Section E2, Lubricity Task Group using industry round robin testing data.

Store at ambient temperature not exceeding 10 – 40°C (50 - 104°F). Do not refrigerate.

Brittany J. Pfleeger  
Supervisor, Analytical Testing  
ASTM Test Monitoring Center  
Ph: 412-365-1013  
bjp@astmtmc.org