

# Airframe manufacturers' service limit for Type IV and Type V fluids

Analysis	Boeing-Seattle	Boeing-Long Beach (Douglas)	Airbus	Bombardier	Gulfstream	Lockheed	BAE	Fokker	Embraer
Appearance	No cloudiness, phase separation, or precipitation; any color is acceptable.					No cloudiness or precipitation. Color: blue/purple to gray	—	—	—
Specific gravity @ 77°F (25°C)	0.970–1.066	0.900–1.066	0.970–1.066	0.995–1.066	0.995–1.066	0.989–1.065	0.995–1.066	0.999–1.057	0.995–1.066
Moisture % (max.)	0.8	0.7	0.8	0.8	0.8	1.0	0.6	0.6	0.8
Neutralization No. mg KOH/g (max.) <sup>a</sup>	1.52	1.5	1.0	1.5	1.5	1.5	0.75	1.0	1.5
Kinematic viscosity @ 100°F (38°C), cSt	6.0–12.5	7.0–12.0	6.0–12.5	6.0–12.5	6.0–12.5	7.0 (min.)	6.0 (min.)	7.0 (min.)	6.0–12.5
Elemental contamination <sup>b</sup>									
Calcium	50 ppm max.	—	—	—	50 ppm max.	—	—	—	—
Potassium	50 ppm max.	—	—	—	50 ppm max.	—	—	—	—
Sodium	50 ppm max.	—	—	—	50 ppm max.	—	—	—	—
Chlorine	200 ppm max.	200	200	200	200 ppm max.	200	200	200	200
Sulfur	500 ppm max.	—	—	—	500 ppm max.	—	—	—	—
Particle contamination #/100 mL (max.)									
Class	9	9	9	9	9	8	9	9	9
5–15 microns	128,000	128,000	128,000	128,000	128,000	64,000	128,000	128,000	128,000
15–25 microns	22,800	22,800	22,800	22,800	22,800	11,400	22,800	22,800	22,800
25–50 microns	4,050	4,050	4,050	4,050	4,050	2,025	4,050	4,050	4,050
50–100 microns	720	720	720	720	720	360	720	720	720
>100 microns	128	128	128	128	128	64	128	128	128

<sup>a</sup> Neutralization number for B-757 Center System is 0.5 mg KOH/g (max.).

<sup>b</sup> Contamination means quantities in excess of those introduced as a part of the base stock or additives package.