



Durability Test				
Testing Load	Aim	Environment		Date
		Temp °F (°C)	Humidity	
ACS System	Durability	95 (35)	68%	2023.06.20
Performance				
Pull (Lb)	Voltage V	Current A	Line Speed ft/min (m/min)	
0	12	63	22.3 (6.8)	
6000	12	185	7.9 (2.4)	
10000	12	262	5.6 (1.7)	
12500	12	310	5.2 (1.6)	
14000	12	326	4.3 (1.3)	
20000	12	425	3.3 (1.0)	
Intensive Test				
Pull (Lb)	Current A	Single Test Distance	Seconds	Comments
16000	360-370	4.9' (1.5m)	60	After every test, stop for 30 minutes. Total 200 tests
18000	390-400	4.9' (1.5m)	60	After every test, stop for 30 minutes. Total 50 tests
Totals		250 Tests		1230ft (375 metres)

Description:

- The test was conducted from 20 July 2023 to 10 July 2023 (20 days).
- The test is conducted at 80%-90% of the rated line pull of the winch.
- Due to heat build up in the motor, the intensive test time takes longer, and the test is carried out with a 30-minute rest after each.
- Other than replacing the test wire rope, there are no abnormal phenomena noted during the test.
- After the test, each component is cleaned and inspected and no abnormal wear and tear found.



Conclusion

During the winch test, there were no irregularities in sound, the braking performance was reliable, all parts were functioning normally, the casting plate was not deformed or broken, and the parts of the reducer were inspected and found intact. Winch test passed.