



Durability Test					
Testing Load	Aim	Environment		Date	
		Temp °F (°C)	Humidity		
ACS System	Durability	89.6 (32)	81%	2022.07.15 - 2022.08.03	
Performance					
Pull (Lb)	Voltage V		Current A	Line Speed ft/min (m/min)	
0	12		45	27.5 (8.4)	
5000	12		190	9.8 (3.0)	
10000	12		290	6.9 (2.1)	
15000	12		380	5.2 (1.6)	
20000	12		465	3.9 (1.2)	
25000	12		530	2.6 (0.8)	
Intensive Test					
Pull (Lb)	Current A		Single Test Distance	Seconds	Comments
20000	460-470		4.9' (1.5m)	80	After every test, stop for 30 minutes. Total 200 tests
22500	490-500		4.9' (1.5m)	80	After every test, stop for 30 minutes. Total 50 tests
Totals			250 Tests		1230ft (375 metres)

Description:

- The test was conducted from 15 July 2022 to 3 August 2022 (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 other 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.