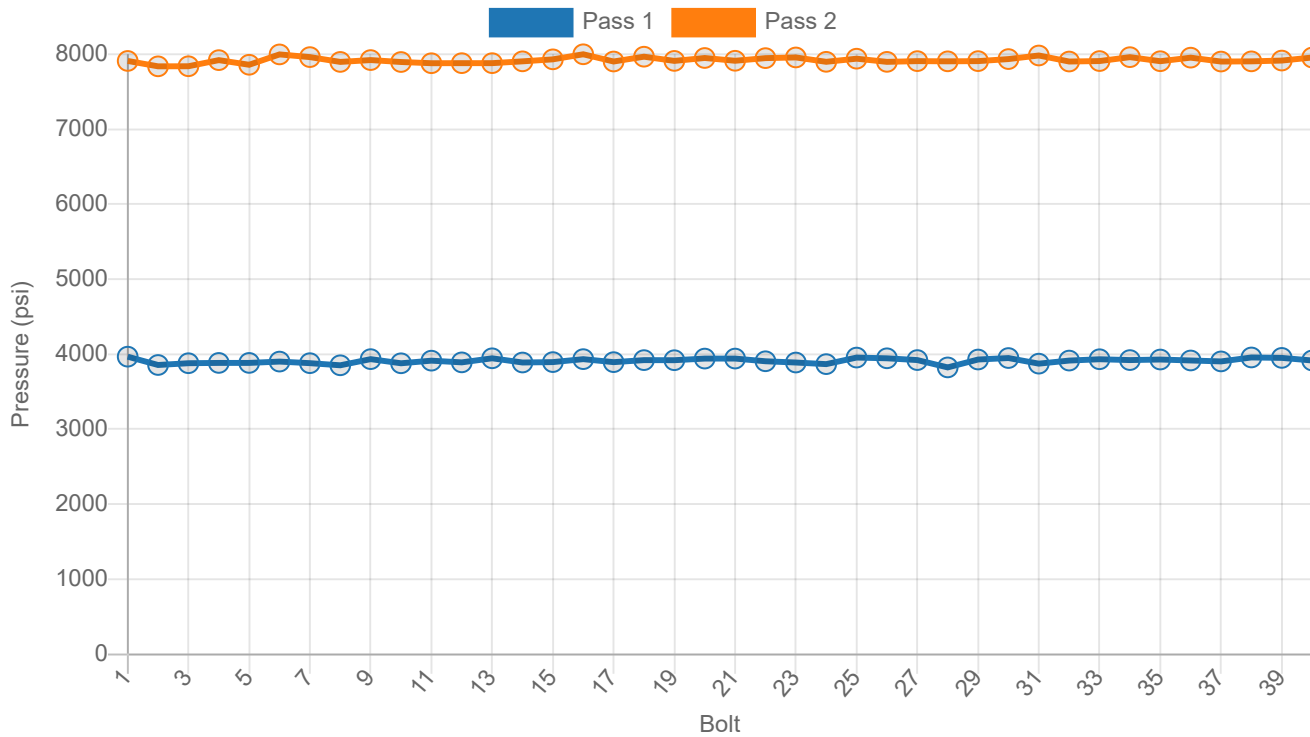


Chart



Job properties

Name Flange 416	Team IrSc20YDX7vCdIoI	Project Permian Basin
Torque assembly Base Flange - 40 t	Pass count 2	Torque wrench Atlas Copco RTX-4

Status	Start date	Finish date
	8/15/24	8/15/24
Latitude	Longitude	
34.2344246 °	-118.22532 °	

Torque assembly properties

Flange	Flange standard	Flange pipe diameter
Flange working pressure	Bolt	Bolt diameter
Bolt thread pitch	Bolt material	Min yield strength
Lubricant	Coefficient of friction	Bolt pattern
		Circle
Bolt count	Target torque	Target percent yield
40	3000 lbf-ft	
Target tension		
0 lbf		

Traceability data points

Event	Pass	Bolt	Name	Value	Capture date

Bolt data points

Operator	Bolt	Status	Pass	Target pressure	Pressure	Torque	Capture date	Torque wrench	
Rick Iannello	1	Tightened	1	3891 psi	3966 psi	1529 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	2	Tightened	1	3891 psi	3855 psi	1486 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	3	Tightened	1	3891 psi	3879 psi	1495 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	4	Tightened	1	3891 psi	3883 psi	1497 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	5	Tightened	1	3891 psi	3883 psi	1497 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	6	Tightened	1	3891 psi	3901 psi	1504 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	7	Tightened	1	3891 psi	3880 psi	1496 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	8	Tightened	1	3891 psi	3851 psi	1485 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	9	Tightened	1	3891 psi	3933 psi	1516 lbf-ft	8/15/24, 4:42 PM	Atlas Copco RTX-4	
Rick Iannello	10	Tightened	1	3891 psi	3878 psi	1495 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	11	Tightened	1	3891 psi	3913 psi	1508 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	12	Tightened	1	3891 psi	3890 psi	1500 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	13	Tightened	1	3891 psi	3945 psi	1521 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	14	Tightened	1	3891 psi	3888 psi	1499 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	15	Tightened	1	3891 psi	3894 psi	1501 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	16	Tightened	1	3891 psi	3933 psi	1516 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	17	Tightened	1	3891 psi	3893 psi	1501 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	18	Tightened	1	3891 psi	3920 psi	1511 lbf-ft	8/15/24, 4:43 PM	Atlas Copco	

Operator	Bolt	Status	Pass	Target pressure	Pressure	Torque	Capture date	Torque wrench	
								RTX-4	
Rick Iannello	19	Tightened	1	3891 psi	3919 psi	1511 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	20	Tightened	1	3891 psi	3941 psi	1519 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	21	Tightened	1	3891 psi	3941 psi	1519 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	22	Tightened	1	3891 psi	3905 psi	1505 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	23	Tightened	1	3891 psi	3888 psi	1499 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	24	Tightened	1	3891 psi	3867 psi	1491 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	25	Tightened	1	3891 psi	3954 psi	1524 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	26	Tightened	1	3891 psi	3945 psi	1521 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	27	Tightened	1	3891 psi	3921 psi	1511 lbf-ft	8/15/24, 4:43 PM	Atlas Copco RTX-4	
Rick Iannello	28	Tightened	1	3891 psi	3823 psi	1474 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	29	Tightened	1	3891 psi	3928 psi	1514 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	30	Tightened	1	3891 psi	3948 psi	1522 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	31	Tightened	1	3891 psi	3873 psi	1493 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	32	Tightened	1	3891 psi	3914 psi	1509 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	33	Tightened	1	3891 psi	3932 psi	1516 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	34	Tightened	1	3891 psi	3921 psi	1511 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	35	Tightened	1	3891 psi	3928 psi	1514 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	

Operator	Bolt	Status	Pass	Target pressure	Pressure	Torque	Capture date	Torque wrench	
Rick Iannello	36	Tightened	1	3891 psi	3915 psi	1509 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	37	Tightened	1	3891 psi	3903 psi	1505 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	38	Tightened	1	3891 psi	3956 psi	1525 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	39	Tightened	1	3891 psi	3950 psi	1523 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	40	Tightened	1	3891 psi	3915 psi	1509 lbf-ft	8/15/24, 4:44 PM	Atlas Copco RTX-4	
Rick Iannello	1	Tightened	2	7782 psi	7909 psi	3049 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	2	Tightened	2	7782 psi	7838 psi	3021 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	3	Tightened	2	7782 psi	7839 psi	3022 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	4	Tightened	2	7782 psi	7920 psi	3053 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	5	Tightened	2	7782 psi	7859 psi	3029 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	6	Tightened	2	7782 psi	7997 psi	3083 lbf-ft	8/15/24, 4:45 PM	Atlas Copco RTX-4	
Rick Iannello	7	Tightened	2	7782 psi	7961 psi	3069 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	8	Tightened	2	7782 psi	7896 psi	3044 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	9	Tightened	2	7782 psi	7921 psi	3054 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	10	Tightened	2	7782 psi	7895 psi	3044 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	11	Tightened	2	7782 psi	7879 psi	3037 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	12	Tightened	2	7782 psi	7880 psi	3038 lbf-ft	8/15/24, 4:46 PM	Atlas Copco RTX-4	
Rick Iannello	13	Tightened	2	7782 psi	7880 psi	3038 lbf-ft	8/15/24, 4:47 PM	Atlas Copco	

Operator	Bolt	Status	Pass	Target pressure	Pressure	Torque	Capture date	Torque wrench	
								RTX-4	
Rick Iannello	14	Tightened	2	7782 psi	7904 psi	3047 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	15	Tightened	2	7782 psi	7931 psi	3057 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	16	Tightened	2	7782 psi	7998 psi	3083 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	17	Tightened	2	7782 psi	7902 psi	3046 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	18	Tightened	2	7782 psi	7966 psi	3071 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	19	Tightened	2	7782 psi	7910 psi	3049 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	20	Tightened	2	7782 psi	7949 psi	3064 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	21	Tightened	2	7782 psi	7912 psi	3050 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	22	Tightened	2	7782 psi	7947 psi	3064 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	23	Tightened	2	7782 psi	7956 psi	3067 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	24	Tightened	2	7782 psi	7898 psi	3045 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	25	Tightened	2	7782 psi	7940 psi	3061 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	26	Tightened	2	7782 psi	7897 psi	3044 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	27	Tightened	2	7782 psi	7907 psi	3048 lbf-ft	8/15/24, 4:47 PM	Atlas Copco RTX-4	
Rick Iannello	28	Tightened	2	7782 psi	7904 psi	3047 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	29	Tightened	2	7782 psi	7907 psi	3048 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	30	Tightened	2	7782 psi	7934 psi	3059 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	

Operator	Bolt	Status	Pass	Target pressure	Pressure	Torque	Capture date	Torque wrench	
Rick Iannello	31	Tightened	2	7782 psi	7982 psi	3077 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	32	Tightened	2	7782 psi	7902 psi	3046 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	33	Tightened	2	7782 psi	7908 psi	3049 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	34	Tightened	2	7782 psi	7960 psi	3069 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	35	Tightened	2	7782 psi	7906 psi	3048 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	36	Tightened	2	7782 psi	7953 psi	3066 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	37	Tightened	2	7782 psi	7901 psi	3046 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	38	Tightened	2	7782 psi	7904 psi	3047 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	39	Tightened	2	7782 psi	7915 psi	3051 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	40	Tightened	2	7782 psi	7955 psi	3067 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	
Rick Iannello	40	Tightened	2	7782 psi	7955 psi	3067 lbf-ft	8/15/24, 4:48 PM	Atlas Copco RTX-4	

Bolt image data points

Pass	Bolt	Image	Operator	Capture date
1	1		RJlannello	8/15/24, 4:41 PM
1	1		RJlannello	8/15/24, 4:40 PM