

ASCTD - ABT y Puerto 4

Rafael Carballo







Introducción







S-4027

S-486

+ 2500 UNIDADES

CLASS 1, OEMs

America del Norte,

Sudáfrica, Australia,

Arabia Saudita.





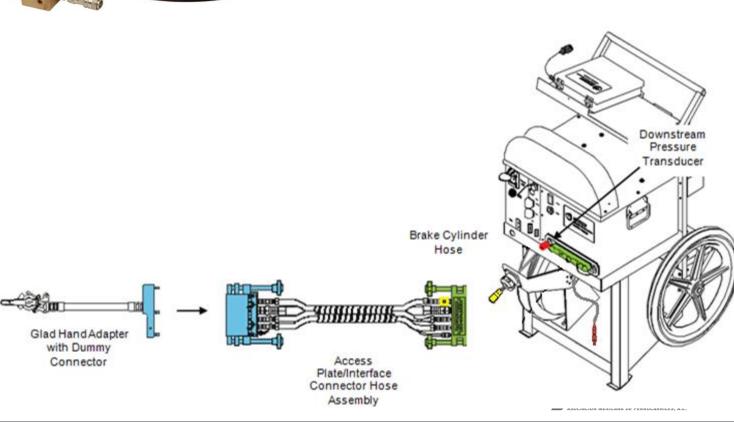
Usos







EOC 4 PORT.





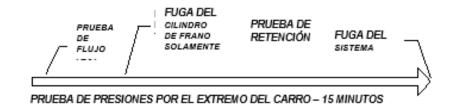
Pruebas

ASCTD Detección de Defectos



91 % de la mayoría de las fallas detectadas de las Pruebas ocurren dentro de los primeros 15 minutos

Manual 90 mins.
ASCTD-EOC
40 mins.
ASCTD - 4 Port.
27 mins

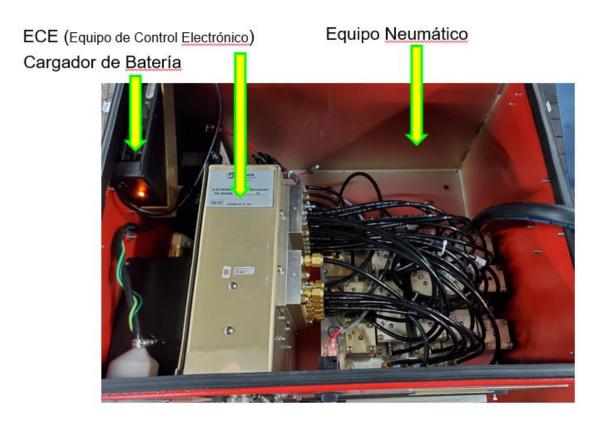


25.5% de la mayoría de las fallas detectadas de las pruebas ocurren dentro de los primeros 15 minutos













Controles y conexiones

Alarma de Seguridad

Conexión de Alimentación 100-240 AC

Puerto de la Red

Entrada de suministro de aire (3/8" NPT)

Antena WiFi-

Puerto USB

Conexión de alimentación del vehículo de 12 Volt DC

Ventilación del suministro de aire (3/8" NPT) Conexión de Interfaz del Usuario

Luces de estado de energia/bateria

/ Interruptor de alimentación

Toma de corriente auxiliar

WABCO MARKET ON A STATE OF THE STATE OF THE

Conexión para bloque de desconexión rápida de placa de acceso.

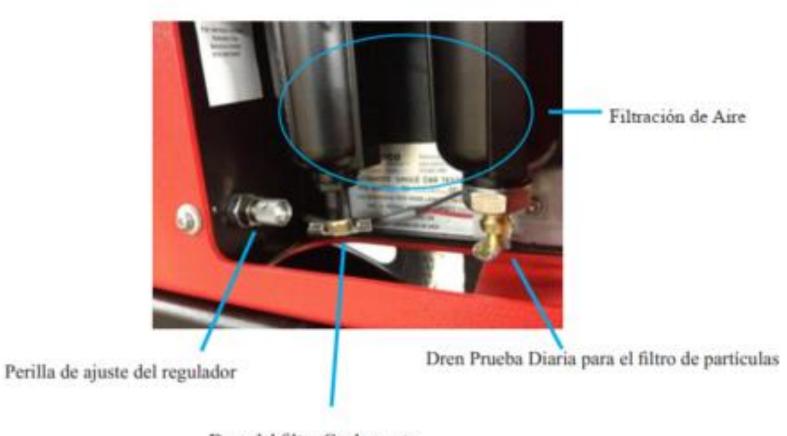
Cubierta de polvo para conexión de interfaz del usuario Cilindro de Freno BC

RS232 Puerto Serial

Puerto paralelo



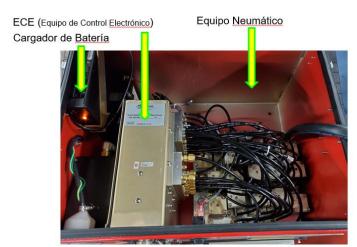




Dren del filtro Coalescente







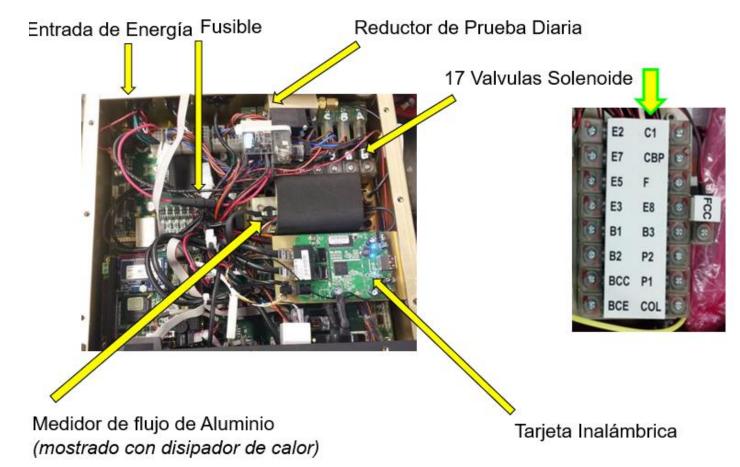
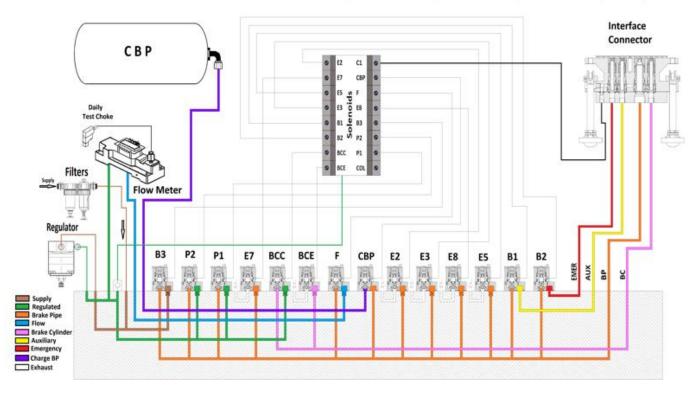








Diagrama de Aire



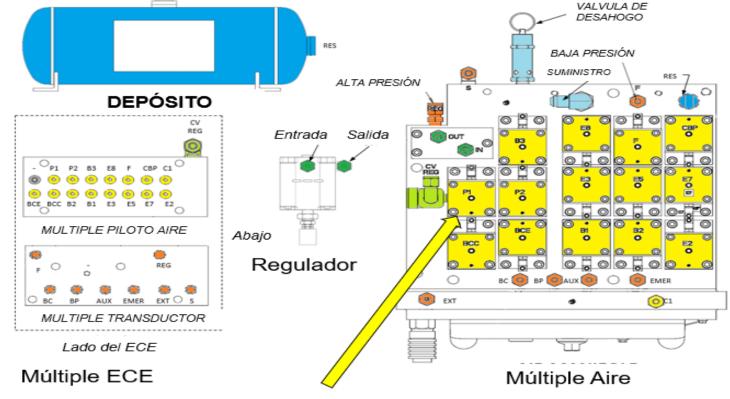




Arriba



CONEXIONES DE TRUBERÍA NEUMÁTICA

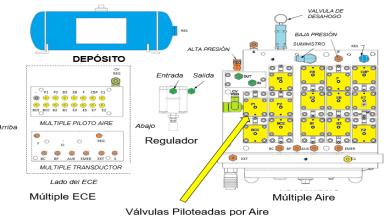


Válvulas Piloteadas por Aire





CONEXIONES DE TRUBERÍA NEUMÁTICA



Componentes de válvulas piloteadas por aire



Base Superficie de sello



Válvulas piloteadas por aire





Vástago de válvula Inserto de hule



Ensamble de válvulas piloteadas por aire





Componentes de válvulas piloteadas por aire



Base Superficie de sello



Válvulas piloteadas por aire

Cubierta Resorte Cuerpo Carrete Base



Vástago de válvula Inserto de hule

Ensamble de válvulas piloteadas por aire



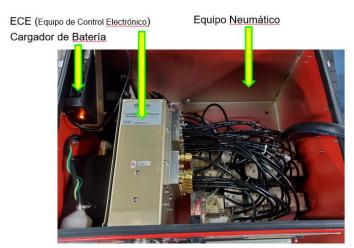
0.0145" (0.37 mm) Min

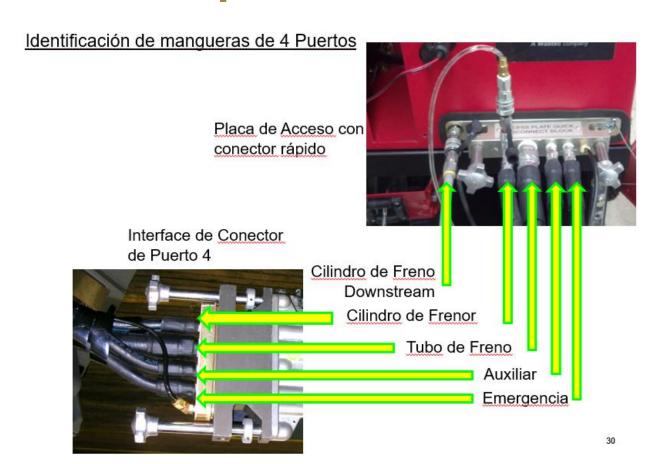


| E2 Choke | |
|-----------|---|
| E3 choke | |
| E5 Choke | |
| E7 Choke | |
| E8 Choke | 3 |
| P1 Choke | |
| P2 Choke | |
| BCC Choke | |
| B3 Choke | |













Calibración



Kit de Calibración

- Procedimiento de Calibración
- Manómetro Digital
- Flujómetro Ajustable
- Termómetro Digital
- Placa ciega de Puerto 4
- Ensamble de mangueras





Interfaz amigable en Windows

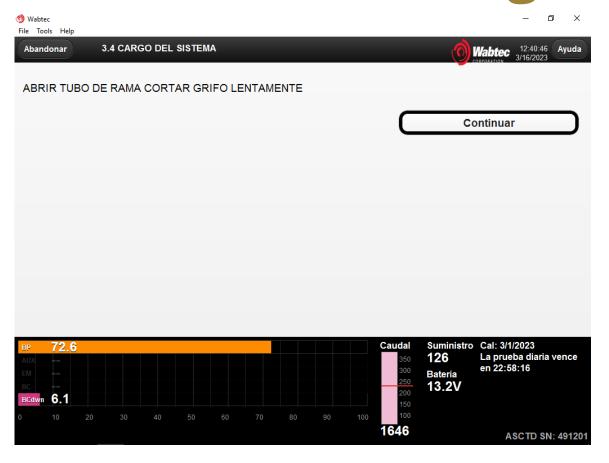


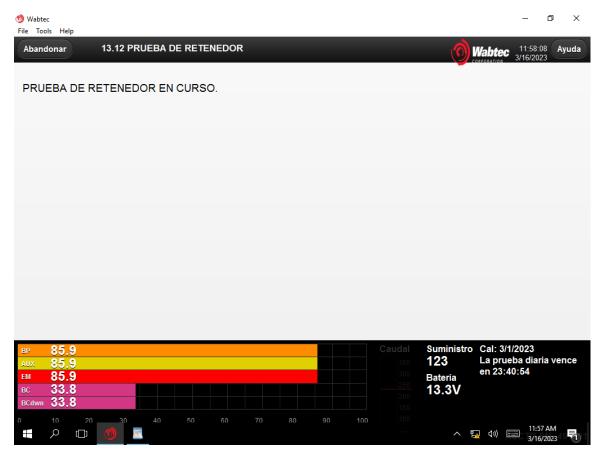
| Wabtec • Tools Help | | | – o × |
|-------------------------------|-------|-----------------------------------|--------------------------------|
| Menú principal | | Wab | 11:07:25 Ayuda |
| | | | |
| 1: Prueba de coche individual | 0 | 5: Aplicar / Verificar liberación | • |
| 2: Operaciones manuales | 0 | 6: Utilidades | 0 |
| 3: Prueba diaria | 0 | 7: Pruebas especiales | 0 |
| 4: Sistema de ventilación | 0 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| P 0.0 UX 0.0 | | | Cal: 3/1/2023 Prueba diaria |
| M 0.1 | | 300 Batería | caducada. |
| c 0.1 | | 250 200 13.3V | |
| Cdwn 0.0 | | | Dinital Analia (C/DDIF), 1009/ |
| 10 20 30 40 50 60 ■ P □ | 70 80 | 90 100 100 | Digital Audio (S/PDIF): 100% |





Interfaz amigable en Windows









Conexión Puerto 4 al Carro

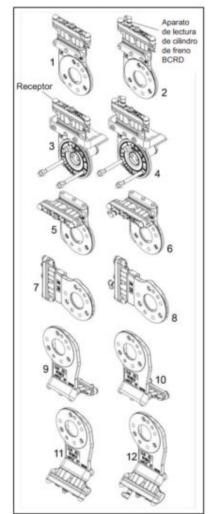


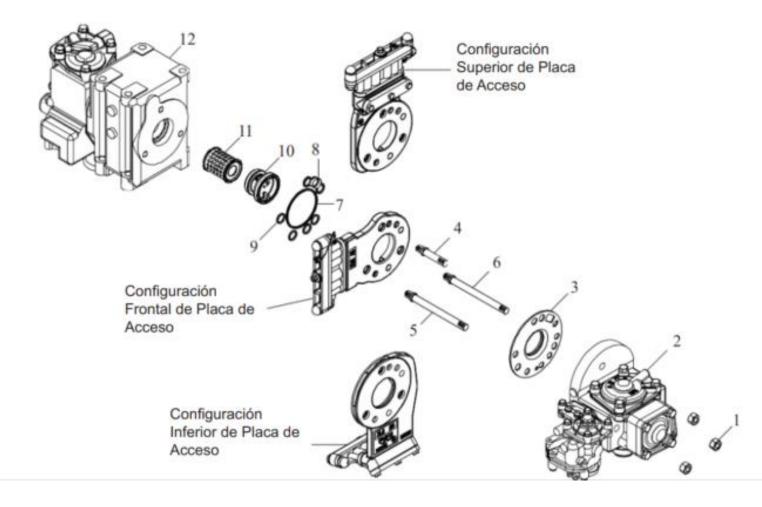






Conexión Puerto 4 al Carro

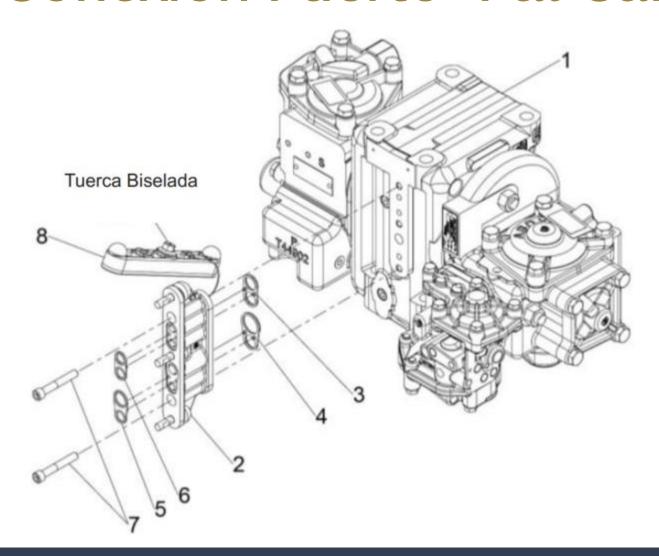








Conexión Puerto 4 al Carro





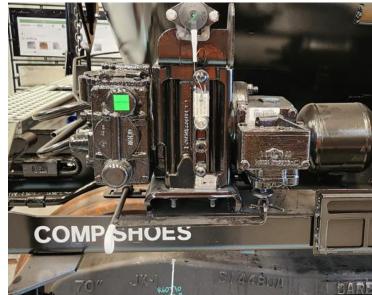


Acceso 12" Min















Resultados

Test Description

| | 60 | 2025-03-1 | 00:23:16 | 211101 | - 1 | LSCTD.18.W07.01 | Wa Wa | btec |
|---------|--|--|--|--|--|--|--|--|
| | | | | | | | ASCTD Detail I | |
| | | Control ' | | | | | | |
| | 1-15:23:47:28 | NO YES NO | Auromsti | c Slack Adjuster | | | | we |
| | | NO | B-1 Video | | | | | |
| 000000 | | YES YES NO | Car equipt | ped with E/L devic | * | | | |
| | | | | _ | | e li | | |
| 200 | Total Control | | 196 | (402) | Sent. | | | Teles |
| YES | Probability Superiors - 18 | | | Minimum Appli | cetien and | Applied Leslage | | |
| YES | New Hough Fast— IV | | | 13.33.1 | FILE | Charge in mix upp ex | 75 salas | |
| 6436 | Heads per reductes Ind | | | 13.13.2/13.19.4 | 29.66 | Application Sensitive | BC and pui | 2.00 |
| PARE. | Assolitory soccessor alterging | | 5.04 | 11.11.5 | PAR | | nerreferries | |
| PUR. | Emergency reservor charging | | 6.75 | 19.747 | - | -#1.5 pai in 13 cm | | - |
| Cherge | and Pull Service | | | 0.00 | | | | 100 |
| PARK | | | 0.00 | | | | | |
| PASS. | | | 414 | 19.14.2.1 | PARK | Applied bride pipe Leskege, 221 settrann | | 4.00 |
| | | | | 13,14.3 | PLO | Applied Autility res | rreis ladings. <0.4 psi. | 6.04 |
| | M-10 po | | . 14.77 | 13.14.6 | 74.0 | Applied Emergency te | errois lenkage, =0.7 pai | -8.00 |
| | Relation descriptions - 107 | | | 13.15 | 74.05 | Meaning Typeser | index. 418 | 4.00 |
| | | | | 19145 | - | | | 4.00 |
| | | | | | Pa (8 | | | 1.74 |
| PER | Broke Pipe / System Lookage - 12 | P with second | 0.00 | 13,16.2 | PSR | the Balana ton | | 10.49 |
| Ignored | Continues Unich Service: - 10" | | | Second Full Se | en los | | | |
| Deed | No USE during Continuous Qualit No Of values | mis. | | 11.17.1 | 748 | Charge second tall ser- | ice, 315 economic | |
| PA.MI | | min. III | 10.00 | 0.012 | 74.05 | AAV norten - PIF | | |
| | ad par | | | 11.17.3 | PARK | AAY - No emergency. | BP of par | |
| | | | 1000 | 13:174 | 14.00 | | Natraduction | |
| | | and the | - | | | | | |
| | retigate their | | | | | The state of the s | * | |
| | | | 65.23 | 1.00,000 | 110 | | | |
| 115 | | | | | | | 2.00 0.00 | |
| | First Pietro tor al manuscono 8.21 0.00 6.00 | ora (worth blied name | in) | 13,312,3 | PLOS | Portes nevel difference naction | | |
| YES | Rigging Inspection - 18 | | | | | 425 800 | 5,00 4,00 | |
| Pulli | | , N. day | fi.ee | | | | | |
| PLSE. | Man, Roll wor, HC releases - No. | 2196 | 845 | | PASS | | | 0.34 0.86 |
| PUNE | SF presser duting manual release. | M* 7 pc | 9,81 | 1531.2 | Tourned Pain | | | 0.86 |
| PANE. | W lotage derig menulisticas | -15ps | 441 | | | | | |
| PARE | Autiliary res. Lookage during won | | 401 | | | | | |
| | | and a | | | | IN THE RESERVE AND ADDRESS OF THE PARTY OF T | | |
| | sekan, 11 pa | TEL | -603 | 3.283 | 17777 | | | 10.00 |
| | Max. Ret. No., INC Aleja referred | | | 1,000 | | | A SA | 60.25 |
| PRINT. | Cylinder reagelies | | | | | The state of the s | | 31.31 |
| | | | | | | | | |
| | | | | 5.28.7 | PAR | Property Too Lastrings - | 3/7 | |
| | District Dis | Test Directions Errent 1,00-00 Column 1,00-00 Column 2,00-00 Colum | ### Destroom Review Control 2023-01-11 | ### Destroom Reter Coultre Coultre 1100-10 | ### Destroics Refer Coldinates Dee | ## Common Review Could 1 | Test Duration Best Calibration Dee 1003-01-33 17-52-04 | Test Desiron Estern Country Control Valve Configuration No. ASCID Detail Section No. Separate Base-pancy Portion YES Automatic Stack Adjuster No. Separate Base-pancy Portion YES Care engaged with EFL device YES Care engaged with |

| Car Number BIMX 400100 Stamp Number | Leakage Limit 60 | Daily Test Date 2023-03-15 08:23:10 | Device Serial Number 211101 | Software Version ASCT D.18.W0J.01 | Wabtec [®] |
|--|--------------------------------------|---|--|--------------------------------------|--|
| 01 Lot Number R41980 | Test Duration Retest Count 1:00:40 1 | Calibration Date 2023-01-13 17:52:04 | 1 | | ASCTD Detail Report |
| Operator Initials DH Test Date 2023-03 Test Type 4 Port Test Result PASS Error Code 000000 | IB 019399 -15 23:47:28 | NO Separate YES Automa NO Vent Va NO B-1 Val 74.00 Brake P YES Car equi YES Car emp | BDS Emergency e Emergency Portion tic Slack Adjuster lve ve ipe length (feet) pped with E/L device | l l | mit for carbuilder option 5 for modulating valve er option |





Resultados

| Car Number BIMX 4001 | | | Daily Test 1 2023-03-1 | | Device Serial Nas 211101 | | ffware Version ASCTD.18.W07.01 | | |
|--|----------------|--|--------------------------------------|-------------------|--|------------------|---|---|--------|
| Stamp Number 01 Lot Number R41930 | | | 2023-01-1 | | | | | ASCTD Detail I | Report |
| Operator Isis Test Dane | 2023-0 | HB 019399 8-15 23:47:28 | NO NO YES | Separate Automati | DS Emergency Emergency Portion ic Slack Adjuster | | | mit for carbuilder o for modulating va r option | |
| Test Type Test Result | 4 Pert PASS | | NO NO 74.00 YES | | e length (feet) | | 0.0000000000000000000000000000000000000 | ×2.*.2610 | |
| Error Code | 000000 | | YES NO | Car esupt | ped vith E/L david y ng Valve (PEP) | | | | |
| Error Descrip | rting | NO ERRORS | | | | | | | |
| Test Descrip | | | | | | | | | |
| 100000000000000000000000000000000000000 | Services. | 1,000 | | 2000 | 1150000 | 1000 | 25 | 10 p | 20000 |
| Supplier . | (naa) | Total | _ | 7582 | (402) | Jenn's | | 1 | 1 tive |
| 18.2 | YES | Probeniusy Ingestion - 65 | | | | | Applied Leskage | | |
| BAL | | New Through East— 191 | | | 13.33.3 | FER | Charge in mix app or | | |
| SALL | P436 | Head-pprocesses Ind. 25 | | | 13.13.2713.19.4 | P1.65 | Application Sensitivity | | 9.46 |
| HAR | PARE | Audies surrer desprin | | 5.86 | 13.33.5 | PAR | BF continues to drop a | recoefuction | |
| 0.62 | PARK | Emergency reservor charging | | 6.75 | 13.14.1 | FARE | Brake cylinder presing | BC 10-30 ms | 19.00 |
| Totaline Syste | m Charge | and Pull Service | | | 13:14:2 | PASS | Cylinder possurure class | 200-100-00-0 | 100 |
| 1343 | PANE | Collective expension of reference charges of | terates . | 0.00 | 13.33.5 | Parts. | Applied brain-pipe Lestings, 221 stimmen | | 4.00 |
| 0.122 | P156 | Brising Valve Test NO-15 dos | 252 | 414 | 13 14.2.1 | | Control of the Control | SELECTION SECTION SERVICES | 400 |
| | PARK | The state of the s | being Valve trackE prosper usige, SE | | 13,143 | PLO | Applied Austliny res | Applied Autiliary received Testings < 0.4 put | |
| | | M-th pe | | 14.87 | 13.14.6 | 74.0 | Applied Emergency reservoir lenkage, =0.7 psi | | 4.00 |
| 191324 | Pale. | Brister drost ryleser - 7/F | | | 13.15 | PASS. | Meaning Typeser | index.<08 | 4.00 |
| 15.5 | YES | Reservati pipe fealage - 10' Hand Brake Inspection - 10' | | | 13.14.5 | PARK | Limiting valverent, 80 | | 4.00 |
| | | | | | 11:121 | PAR | Sion Relates diff | | 1.34 |
| HAZYHAY | PARE | Brein Per / System Lookage - 12 | P winter | 0.00 | | PLIK | Sign Raisers you | | 10.49 |
| 183.63 | Ignored | Continues Oach Service: - 10" | | | Second Full Se | entre | | | |
| 11.11.12 | Dead | No 108 during Continuos Quick for 68 village | errica. | | 13.17.1 | 71.00 | Charge second tall ser- | ios.375 sciences | |
| 100.020.0 | PARE | Vest Valve Subday card ESE Sub- | min. III | 11.16 | 13.17.2 | 514.00 | AAV nortice - PIF | | |
| | | ad par construction of the con- | | | 13.17.3 | PARK | AAY - No amargancy. | SP of par | |
| 19.122.1 | Pass | Year Value Scoolings, 18 + 7 pm | | 940 | 13,17.4 | PARK | BP continues to drop a | | |
| 19123 | Partie. | Entrapticy exercise leakage, 12 III continues to slong after resinct on | THE REAL PROPERTY. | -81 | 11.52 | PAR | Service Stability RP-1 | | |
| 1862) | 11000 | retignation | | | 13.18.2 | 723 | Second Pinters Torrel (| | |
| 10,64 | Ph/66 | Full Service Pressure . H. 149 per | | 65.25 | 1.05,00,2 | 110 | Second Proton Torrel | | |
| 10.00 | 115 | First Plates Toolsch- 197 | | | | | 1.00 0.00 | 0.00 0.00 | |
| | | First Piving for all passesses | | (cs) | 15.15.2.1 | PARK | Piotes nevel difference | Sink Adjuster | |
| | | 3.21 6/8 6/8 | 0.00 | | | | artis am | 400 400 | |
| 13.54 | YES | Rigging Inspection 18' | | | 13.81 | PARK | Energency Sensitivity | | |
| | Publi | Extended (10 min) for Rig. Type wave | | 0.00 | 15.10.1 | PARK | Europeary squalinets | | 10.00 |
| 13.06.1 | PLN | Man, Roll and, RC releases - No. | | 8.65 | 13.11.1 | PASS. Spercel | Leskage into BP) | | 0.34 |
| 19,193,0 | PUNE | SF presser duting manual release. | - | 9,81 | 15.11.2 | Palit | Emergency Astrologist | | |
| 13.84.61 | PANE | W leakage during manual school, | - 1.5 pe | 681 | Empty Load To | est / Mess | ni Release Resplication | | |
| 10,163.2 | PARE | Austiney res. Lookage during won- referance. Class. | mel | -605 | 3.20.2 | Pale | Charge or enjoy level | net. still outer | |
| THEFT | PANE. | Descriptory res. Lustings during as | and . | 400 | 1,20,3 | PARK | Bapty Practices, DC - | | -11.01 |
| | | selven, 11 per | | - | 1.443 | PARK | | | 60.75 |
| D.H.31 (5.2k.i | PLIE | Man, Rall tern, BC steps referred | | | 3.304 | PARK | Fall service bods cylin | | 31.31 |
| 15.19.4 | mile. | Cylinder reagelies | | | 3.384 | 1400 | ExprofLoad test, BC 1 | Parts. | 11.11 |

| 1.20.3 | PANK | ExpryCood Seap text - Prif | 1.20.7 | PANK | Practice Top Leakage - Prif | 1.20.2 | VES | Sport recover Leakage - Prif

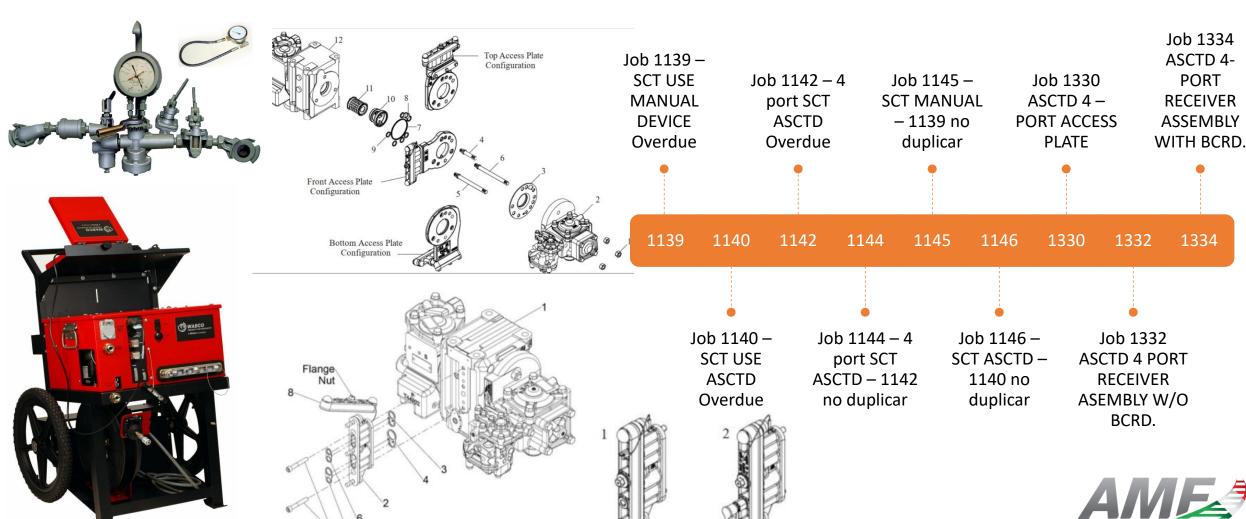
| S4027 | Result | Test | Value |
|-----------------|-----------|---|-------|
| 13.2 | YES | Preliminary Inspection - P/F | |
| 13.4.1 | YES | Flow Through Test - P/F | |
| 13.4.1.1 | PASS | Branch pipe restriction Test - P/F | |
| 13.6.1 | PASS | Auxiliary reservior charging | 3.14 |
| 13.6.2 | PASS | Emergency reservior charging | 0.75 |
| Trainline Syst | em Charge | and Full Service | |
| 13.6.3 | PASS | Cylinders remain in release during charging | 0.00 |
| 13.12.2 | PASS | Retaining Valve Test, BC> 1.5 drop | -0.14 |
| | PASS | Retaining Valve test BC pressure range, BC 10-16 psi | 14.57 |
| 13.12.2.1 | PASS | Retainer direct release - P/F | |
| 13.6.4 | PASS | Reservoir pipe leakage - P/F | |
| 13.7 | YES | Hand Brake Inspection - P/F | |
| 13.4.2 / 13.6.5 | PASS | Brake Pipe / System Leakage - 225* scim max | 0.00 |
| 13.5.1.1 | Ignored | Continuous Quick Service - P/F | |
| 13.5.1.2 | Unused | No UDE during Continuous Quick Service, BP > 5 psi | |
| 13.5.2.1.1 | PASS | Vent Valve Stability / no UDE Full service, BP >5 psi | 51.36 |
| | | | |

| S4027 | Result | Test | Valu |
|-----------------------|--------------|--|---------------|
| Minimum Appli | cation and | Applied Leakage | |
| 13.13.1 | PASS | Charge for min app <= 375 scim | |
| 13.13.2 / 13.19.4 | PASS | Application Sensitivity, BC =>6 psi | 8.68 |
| 13.13.5 | PASS | BP continues to drop after reduction <=1.5 psi in 15 sec | |
| 13.14.1 | PASS | Brake cylinder pressure, BC 12-30 psi | 19.00 |
| 13.14.2 | PASS | Cylinder pressure change, <= ±1 psi | 0.00 |
| 13.13.5, 13.14.2.1 | PASS | Applied brake pipe Leakage, 225 scim max | -0.00 |
| 13.14.3 | PASS | Applied Auxiliary reservoir leakage, <0.4 psi | 0.06 |
| 13.14.4 | PASS | Applied Emergency reservoir leakage, <0.7 psi | -0.08 |
| 13.15 | PASS | Maintaining Type service flow, <50 | -0.00 |
| 13.14.5 | PASS | Limiting valve test, BC>6 | 6.00 |
| 13.16.1 13.16.2 | PASS PASS | Slow Release diff Slow Release time | 1.34 10.40 |
| Second Full Se | ervice | | |
| 13.17.1 | PASS | Charge second full service, 375 scimmax | |
| 13.17.2 | PASS | AAV function - P/F | |
| 13.17.3 | PASS | AAV - No emergency, BP >5 psi | |





Job Codes- Códigos de Trabajo





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