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Test 887: Allis-Chalmers 190 XT (Diesel)

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NEBRASKA TRACTOR TEST 887 - ALLIS-CHALMERS ONE-NINETY XT DIESEL

(ALSO ALLIS—CHALMERS 200 DIESEL)

Department of Agricultural Engineering
Dates of Test: APRIL 10 TO APRIL 16, 1965

Manufacturers: ALLIS-CHALMERS MANUFACTURING COMPANY, MILWAUKEE, WISCONSIN

FUEL, OIL and TIME Fuel No 2 Diesel Cetane No 57.0 (rating taken from oil company's typical inspection data) Specific gravity converted to 60°F 0.8312 Weight per gallon 6.920 lb Oil SAE 20-20W API service classification DS To Motor 2.688 gal Drained from motor 1.908 gal Transmission and final-drive lubricant E.P. 80 Total time engine was operated 41 hours.

ENGINE Make Allis-Chalmers Diesel Type 6 cylinder vertical with turbo-charger Serial No 2002474 Crankshaft mounted lengthwise Rated rpm 2200 Bore and stroke 3 ¾ x 4 ¾" Compression ratio 16.25 to 1 Displacement 301 cu in in Cranking system 12 volt electric (two 12-volt batteries) Lubrication pressure Air cleaner dry type replaceable pleated paper element Oil filter full flow replaceable paper element full flow replaceable paper cartridge Oil cooler engine coolant heat exchanger for crankcase oil and radiator for hydraulic oil Fuel filter two sediment bowls and one dual media replaceable cartridge Muffler was not used Cooling medium temperature control thermostat.

CHASSIS Type standard Serial No 190 3454 DXT Tread width rear 64" to 80" front 60" to 84" Wheel base 105 ½" Center of gravity (without out operator or ballast, with minimum tread, with fuel tank filled and tractor serviced for operation) Horizontal distance forward from center-line of rear wheels 31 ½" Vertical distance above roadway 39 ¼" Horizontal distance from center of rear wheel tread 0" to the right/left Hydraulic control system direct engine drive Transmission selective gear ratio with operator controlled partial range power shifting Advertised speeds mph first 2.1 second 3.0 third 3.6 fourth 4.4 fifth 5.1 sixth 6.3 seventh 9.6 eighth 13.6 reverse 2.8 and 3.9 Clutch single plate dry disc operated by foot pedal Brakes contracting band and disc operated by two foot pedals which can be locked Steering hydraulic with power assist Turning radius (on concrete surface with brake applied) right 139" left 138" (on concrete surface without brake) right 156" left turn 156" Turning space diameter (on concrete surface with brake applied) right 281" left 281" (on concrete surface without brake) right 300" left 300" Belt pulley 1845 rpm at 2200 engine rpm diam 9" face 6½" Belt speed 4347 rpm Power take-off 540 rpm at 1937 engine rpm.

REPAIRS and ADJUSTMENTS No repairs or adjustments. REMARKS All test results were determined from observed data obtained in accordance with the SAE and ASAE test code. First and second gears were not run as it was necessary to limit the pull in third gear to avoid excessive wheel slippage. We, the undersigned, certify that this is a true and correct report of official Tractor Test 887.

E. L. F. LARSEN
Engineer-in-Charge
G. W. STEINBRUEGGE, Chairman
J. J. SULEK
D. E. LANE
Board of Tractor Test Engineers

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