

# Cat Electronic Technician 2024B v1.0

## Product Status Report

10/27/2025 1:03 PM

### Product Status Report

Parameter	Value
Product ID	THE00493
Equipment ID	
Comments	

### Fracturing Transmission (THE00493)

Parameter	Value
Equipment ID	
Transmission Serial Number	THE00493
ECM Part Number	3045687-02
ECM Serial Number	31646505MS
Software Group Part Number	4542253-00
Software Group Release Date	APR2014
Software Group Description	TH55-E90 2500hp

### Logged Diagnostic Codes - Fracturing Transmission (THE00493)

Code	Description	Occ.	First	Last
177- 3	Transmission Oil Temperature Sensor : Voltage Above Normal	2	6869	6869
444- 5	Starter Motor Relay : Current Below Normal	4	6864	6869
668- 9	Transmission Shift Lever : Abnormal Update Rate	1	6869	6869
826- 3	Torque Converter Oil Temperature Sensor : Voltage Above Normal	2	6869	6869
3013- 2	Lockup Clutch Disable Switch : Erratic, Intermittent, or Incorrect	3	6864	6869

### Logged Event Codes - Fracturing Transmission (THE00493)

Code	Description	Occ.	First	Last
E083 (2)	Transmission Overspeed	25	0	6864
E047 (2)	Transmission Abuse Warning	2	0	0
E329 (3)	Transmission Filter Plugged	3	0	0

### Active Diagnostic Codes - Fracturing Transmission (THE00493)

Code	Description
177- 3	Transmission Oil Temperature Sensor : Voltage Above Normal
444- 5	Starter Motor Relay : Current Below Normal
668- 9	Transmission Shift Lever : Abnormal Update Rate
826- 3	Torque Converter Oil Temperature Sensor : Voltage Above Normal
3013- 2	Lockup Clutch Disable Switch : Erratic, Intermittent, or Incorrect

### Active Event Codes - Fracturing Transmission (THE00493)

Code	Description
No Active Events	

### Current Totals - Fracturing Transmission (THE00493)

Description	Value	Unit
Transmission Lifetime Hours	Unavailable	hours

### Configuration - Fracturing Transmission (THE00493)

Description	Value	Unit
Equipment ID		
Transmission Serial Number	THE00493	
Torque Converter Serial Number	JW799999	
Transmission Configuration Code	9025	
Lockup Clutch Disengagement Engine Speed	1400	rpm
Flywheel Teeth	142	
Engine Reference Torque Override Configuration	7075	lb-ft
Engine Control Data Link Configuration	J1939	
Transmission High Temperature Neutralization Enable Status	Disabled	
Transmission Shifter #1 Input Configuration	CAN Input	
Transmission Shifter #1 Minimum Forward Gear	1	
Transmission Shifter #1 Maximum Forward Gear	9	
Transmission Shifter #2 Input Configuration	CAN Input	
Transmission Shifter #2 Minimum Forward Gear	1	
Transmission Shifter #2 Maximum Forward Gear	9	
Lockup Clutch Disable Feature Installation Status	Installed	
Transmission Neutral Request Park Brake Enable Status	Unavailable	
Low Flow Transmission Control Desired Speed Input Configuration	Unavailable	
Low Flow Transmission Control Input Configuration	Unavailable	
Engine Torque Correction Factor	Unavailable	%
Engine Driven Accessory Load Configuration	Unavailable	hp
Low Flow Transmission Control Installation Status	Unavailable	
Customer Password #1	*****	
Customer Password #2	*****	

### Calibration Status - Fracturing Transmission (THE00493)

Calibration	Status	Last Successful Completion
-------------	--------	----------------------------

Transmission Fill Calibration	Unknown	Unknown
Lockup Clutch Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #6 Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #5 Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #4 Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #3 Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #2 Engagement Pressure Calibration	Unknown	Unknown
Trans Clutch #1 Engagement Pressure Calibration	Unknown	Unknown

**Lifetime:Time vs Torque Converter Oil Outlet Temperature And Transmission Oil Temperature - Fracturing Transmission (THE00493)**

Deg F	<14	14-103	104-130	131-157	158-184	185-211	212-238	239-265	266-293
Deg F									
<14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-103	0.00	4.90	2.75	1.10	0.00	0.00	0.00	0.00	0.00
104-130	0.00	0.00	3.25	4.95	1.50	0.00	0.00	0.00	0.00
131-157	0.00	0.15	0.05	1748.55	176.85	63.80	0.00	0.00	0.00
158-184	0.00	0.05	0.70	0.20	2542.30	307.10	0.00	0.00	0.00
185-211	0.05	0.35	0.15	0.10	0.40	1970.55	0.35	0.00	0.00
212-238	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.00	0.00
239-265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266-293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	5.45	6.90	1754.90	2721.05	2341.45	2.65	0.00	0.00

**Lifetime:Time vs Torque Converter Oil Outlet Temperature And Transmission Oil Temperature - Fracturing Transmission (THE00493)**

Deg F	>293	Total
Deg F		
<14	0.00	0.00
14-103	0.00	8.75
104-130	0.00	9.70
131-157	0.00	1989.40
158-184	0.00	2850.35
185-211	0.00	1971.95
212-238	0.00	2.30
239-265	0.00	0.00
266-293	0.00	0.00
>293	0.00	0.00
Total	0.00	6832.45

**Engine Torque vs Engine Speed in N - Fracturing Transmission (THE00493)**

rpm	<799	799-	1199-	1499-	1699-	1849-	1924-	1999-	2099-
-----	------	------	-------	-------	-------	-------	-------	-------	-------

		1198	1498	1698	1848	1923	1998	2098	2198
rpm									
<99	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99-198	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	109.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.25	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.60	1.75	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.10	0.50	0.30	0.10	0.10	0.30	0.35
Total	110.35	2.30	1.85	0.50	0.30	0.10	0.10	0.30	0.35

**Engine Torque vs Engine Speed in N - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	0.20
99-198	0.00	0.00	0.15
199-348	0.00	0.00	0.35
349-498	0.00	0.00	0.40
499-798	0.00	0.00	109.05
799-1098	0.00	0.00	1.90
1099-1499	0.00	0.00	2.35
>1499	0.00	0.00	1.75
Total	0.00	0.00	116.15

**Converter Speed vs Engine Speed 1C - Fracturing Transmission (THE00493)**

rpm	<799	799-1198	1199-1498	1499-1698	1699-1848	1849-1923	1924-1998	1999-2098	2099-2198
rpm									
<99	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99-198	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.80	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	5.25	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	3.35	0.30	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.10	5.40	2.90	0.00	0.00	0.00	0.00	0.00	0.00

**Converter Speed vs Engine Speed 1C - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	0.80
99-198	0.00	0.00	0.55
199-348	0.00	0.00	0.70

349-498	0.00	0.00	0.85
499-798	0.00	0.00	7.25
799-1098	0.00	0.00	3.65
1099-1499	0.00	0.00	2.60
>1499	0.00	0.00	0.00
Total	0.00	0.00	16.40

**Converter Speed vs Engine Speed 2C - Fracturing Transmission (THE00493)**

rpm	<799	799-1198	1199-1498	1499-1698	1699-1848	1849-1923	1924-1998	1999-2098	2099-2198
rpm									
<99	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99-198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	5.05	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.15	2.70	0.40	0.00	0.00	0.00	0.00	0.00	0.00

**Converter Speed vs Engine Speed 2C - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	0.05
99-198	0.00	0.00	0.00
199-348	0.00	0.00	0.00
349-498	0.00	0.00	0.05
499-798	0.00	0.00	7.05
799-1098	0.00	0.00	0.70
1099-1499	0.00	0.00	0.40
>1499	0.00	0.00	0.00
Total	0.00	0.00	8.25

**Converter Speed vs Engine Speed 3C - Fracturing Transmission (THE00493)**

rpm	<799	799-1198	1199-1498	1499-1698	1699-1848	1849-1923	1924-1998	1999-2098	2099-2198
rpm									
<99	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99-198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	6.35	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00



99-198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Converter Speed vs Engine Speed 5C - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	0.00
99-198	0.00	0.00	0.00
199-348	0.00	0.00	0.00
349-498	0.00	0.00	0.00
499-798	0.00	0.00	1.60
799-1098	0.00	0.00	0.00
1099-1499	0.00	0.00	0.00
>1499	0.00	0.00	0.00
Total	0.00	0.00	1.60

**Converter Speed vs Engine Speed 6C - Fracturing Transmission (THE00493)**

rpm	<799	799-1198	1199-1498	1499-1698	1699-1848	1849-1923	1924-1998	1999-2098	2099-2198
rpm									
<99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99-198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199-348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349-498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Converter Speed vs Engine Speed 6C - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	0.00
99-198	0.00	0.00	0.00
199-348	0.00	0.00	0.00
349-498	0.00	0.00	0.00
499-798	0.00	0.00	1.40
799-1098	0.00	0.00	0.00





349-498	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499-798	3831.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
799-1098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099-1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>1499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3848.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Converter Speed vs Engine Speed 1R - Fracturing Transmission (THE00493)**

rpm	2199-2299	>2299	Total
rpm			
<99	0.00	0.00	16.65
99-198	0.00	0.00	0.00
199-348	0.00	0.00	0.00
349-498	0.00	0.00	0.20
499-798	0.00	0.00	3831.55
799-1098	0.00	0.00	0.00
1099-1499	0.00	0.00	0.00
>1499	0.00	0.00	0.00
Total	0.00	0.00	3848.40

**Engine Torque vs Engine Speed in 1F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
%									
<15	0.00	0.00	0.10	1.75	5.10	6.55	5.20	0.00	18.70
15-19	0.00	0.00	0.40	4.10	7.80	13.25	10.35	0.00	35.90
20-24	0.00	0.00	0.25	2.30	10.30	17.90	8.25	0.00	39.00
25-29	0.00	0.00	1.05	1.90	2.30	12.50	1.20	0.00	18.95
30-34	0.00	0.00	0.10	0.30	0.70	18.80	0.00	0.00	19.90
35-39	0.00	0.00	0.40	0.90	1.40	25.05	0.00	0.00	27.75
40-44	0.00	0.00	0.25	0.30	0.75	22.00	0.00	0.00	23.30
45-49	0.00	0.00	0.00	0.10	0.30	12.75	0.00	0.00	13.15
50-54	0.00	0.00	0.00	0.10	0.20	5.55	0.00	0.00	5.85
55-59	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.65
60-64	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	2.55	11.75	28.90	135.00	25.00	0.00	203.20

**Engine Torque vs Engine Speed in 2F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
-----	-------	-----------	-----------	-----------	-----------	-----------	-----------	-------	-------

%									
<15	0.00	0.00	0.05	0.55	1.10	3.90	1.10	0.00	6.70
15-19	0.00	0.00	0.00	8.55	10.60	9.10	4.10	0.00	32.35
20-24	0.00	0.00	0.00	4.15	10.45	17.35	4.05	0.00	36.00
25-29	0.00	0.00	0.15	2.15	6.20	9.70	1.05	0.00	19.25
30-34	0.00	0.00	0.05	0.40	2.35	14.55	0.00	0.00	17.35
35-39	0.00	0.00	0.00	0.10	1.10	41.50	0.00	0.00	42.70
40-44	0.00	0.00	0.00	0.30	0.40	91.40	0.00	0.00	92.10
45-49	0.00	0.00	0.00	0.15	1.20	94.80	0.00	0.00	96.15
50-54	0.00	0.00	0.00	0.00	2.60	94.70	0.00	0.00	97.30
55-59	0.00	0.00	0.00	0.00	1.00	70.15	0.00	0.00	71.15
60-64	0.00	0.00	0.00	0.05	0.35	49.15	0.00	0.00	49.55
65-69	0.00	0.00	0.00	0.15	0.15	23.70	0.00	0.00	24.00
70-74	0.00	0.00	0.05	0.20	0.05	5.90	0.00	0.00	6.20
75-79	0.00	0.00	0.00	0.05	0.00	0.95	0.00	0.00	1.00
80-84	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.30	16.80	37.55	526.90	10.30	0.00	591.85

#### Engine Torque vs Engine Speed in 3F - Fracturing Transmission (THE00493)

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
%									
<15	0.00	0.00	0.00	0.25	0.05	0.45	0.40	0.00	1.15
15-19	0.00	0.00	0.20	7.40	1.50	1.20	0.75	0.00	11.05
20-24	0.00	0.00	0.80	9.55	5.45	5.65	1.65	0.00	23.10
25-29	0.00	0.00	0.00	1.10	2.80	5.15	0.60	0.00	9.65
30-34	0.00	0.00	0.45	0.15	0.15	9.20	0.00	0.00	9.95
35-39	0.00	0.00	0.00	0.00	0.40	63.90	0.00	0.00	64.30
40-44	0.00	0.00	0.00	0.00	3.60	291.05	0.00	0.00	294.65
45-49	0.00	0.00	0.00	0.10	2.70	281.15	0.00	0.00	283.95
50-54	0.00	0.00	0.00	0.00	1.70	167.50	0.00	0.00	169.20
55-59	0.00	0.00	0.00	0.00	1.15	92.85	0.00	0.00	94.00
60-64	0.00	0.00	0.00	0.10	1.60	50.30	0.00	0.00	52.00
65-69	0.00	0.00	0.00	0.15	0.40	20.00	0.00	0.00	20.55
70-74	0.00	0.00	0.00	0.25	0.55	10.40	0.00	0.00	11.20
75-79	0.00	0.00	0.00	0.05	1.00	3.90	0.00	0.00	4.95
80-84	0.00	0.00	0.00	0.00	0.05	0.80	0.00	0.00	0.85
85-89	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	1.45	19.10	23.10	1003.55	3.40	0.00	1050.60

#### Engine Torque vs Engine Speed in 4F - Fracturing Transmission (THE00493)

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
-----	-------	-----------	-----------	-----------	-----------	-----------	-----------	-------	-------

%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
20-24	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.15
25-29	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.15
30-34	0.00	0.00	0.00	0.00	0.25	0.35	0.00	0.00	0.60
35-39	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.90
40-44	0.00	0.00	0.00	0.00	0.20	19.10	0.00	0.00	19.30
45-49	0.00	0.00	0.00	0.00	6.30	140.15	0.00	0.00	146.45
50-54	0.00	0.00	0.00	0.00	5.50	213.65	0.00	0.00	219.15
55-59	0.00	0.00	0.00	0.00	1.05	130.50	0.00	0.00	131.55
60-64	0.00	0.00	0.00	0.00	1.00	79.00	0.00	0.00	80.00
65-69	0.00	0.00	0.00	0.00	0.05	41.60	0.00	0.00	41.65
70-74	0.00	0.00	0.00	0.00	0.30	14.95	0.00	0.00	15.25
75-79	0.00	0.00	0.00	0.00	0.20	5.10	0.00	0.00	5.30
80-84	0.00	0.00	0.00	0.00	0.00	2.10	0.00	0.00	2.10
85-89	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.70
90-95	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.15
>95	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10
Total	0.00	0.00	0.00	0.05	14.95	648.50	0.05	0.00	663.55

**Engine Torque vs Engine Speed in 5F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-34	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.15
35-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05
45-49	0.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	2.95
50-54	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.00	6.10
55-59	0.00	0.00	0.00	0.00	0.00	10.70	0.00	0.00	10.70
60-64	0.00	0.00	0.00	0.00	0.00	9.90	0.00	0.00	9.90
65-69	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.00	4.60
70-74	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00	3.70
75-79	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	1.45
80-84	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.05
85-89	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10
Total	0.00	0.00	0.00	0.00	0.25	40.60	0.00	0.00	40.85

**Engine Torque vs Engine Speed in 6F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
-----	-------	-----------	-----------	-----------	-----------	-----------	-----------	-------	-------

%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20
45-49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50-54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20

**Engine Torque vs Engine Speed in 7F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05
45-49	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.15
50-54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	1.25
80-84	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	1.65

**Engine Torque vs Engine Speed in 8F - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
-----	-------	-----------	-----------	-----------	-----------	-----------	-----------	-------	-------

%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45-49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50-54	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05
55-59	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.15

**Engine Torque vs Engine Speed in 9FL - Fracturing Transmission (THE00493)**

rpm	<1100	1100-1299	1300-1499	1500-1699	1700-1899	1900-2099	2100-2300	>2300	Total
%									
<15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45-49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50-54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Lifetime:Time vs Actual Gear - Fracturing Transmission (THE00493)**

Actual Gear( )	hours	%
2048Park	3848.45	56.05

2304Park	296.65	4.32
Neutral	116.65	1.70
1F	16.75	0.24
2F	8.40	0.12
3F	7.55	0.11
4F	11.20	0.16
5F	1.60	0.02
6F	1.45	0.02
7F	0.00	0.00
8F	0.00	0.00
9F	0.00	0.00
1F L	204.45	2.98
2F L	593.25	8.64
3F L	1052.15	15.32
4F L	664.45	9.68
5F L	41.30	0.60
6F L	0.20	0.00
7F L	1.75	0.03
8F L	0.25	0.00
9F L	0.00	0.00

**Shift Count Matrix - Fracturing Transmission (THE00493)**

Actual Gear	2048Park	2304Park	Neutral	1F	2F	3F	4F	5F	6F
Actual Gear									
2048Park	0	2171	5383	2	0	0	0	0	0
2304Park	1665	0	491	0	0	0	0	0	0
Neutral	6023	0	0	3867	334	245	781	104	128
1F	0	0	1304	0	58	0	0	0	0
2F	0	0	53	31	0	43	2	0	0
3F	0	0	77	0	29	0	46	0	0
4F	0	0	779	0	0	28	0	20	0
5F	0	0	109	0	0	0	12	0	2
6F	0	0	126	0	0	0	0	2	0
7F	0	0	0	0	0	0	0	0	0
8F	0	0	0	0	0	0	0	0	0
9F	0	0	2	0	0	0	0	0	0
Total	7688	2171	8324	3900	421	316	841	126	130

**Shift Count Matrix - Fracturing Transmission (THE00493)**

Actual Gear	7F	8F	9F	Total
Actual Gear				
2048Park	0	0	0	7556
2304Park	0	0	0	2156
Neutral	0	0	0	11482
1F	0	0	0	1362

2F	0	0	0	129
3F	0	0	0	152
4F	0	0	0	827
5F	2	0	0	125
6F	1	0	0	129
7F	0	2	0	2
8F	0	0	2	2
9F	0	0	0	2
Total	3	2	2	23924

**Shift Count Matrix (4WD) - Fracturing Transmission (THE00493)**

Actual Gear	2048Park	2304Park	Neutral	1F	2F	3F	4F	5F	6F
Actual Gear									
2048Park	0	0	0	0	0	0	0	0	0
2304Park	0	0	0	0	0	0	0	0	0
Neutral	1	0	0	110	0	0	0	0	0
1F	0	0	52	0	33	0	0	0	0
2F	0	0	6	13	0	5	0	0	0
3F	0	0	8	0	4	0	4	0	0
4F	0	0	0	0	1	2	0	0	0
5F	0	0	0	0	0	0	1	0	0
6F	0	0	0	0	0	0	0	0	0
7F	0	0	1	0	0	0	0	1	0
8F	0	0	0	0	0	0	0	0	0
9F	0	0	0	0	0	0	0	0	0
Total	1	0	67	123	38	7	5	1	0

**Shift Count Matrix (4WD) - Fracturing Transmission (THE00493)**

Actual Gear	7F	8F	9F	Total
Actual Gear				
2048Park	0	0	0	0
2304Park	0	0	0	0
Neutral	0	0	0	111
1F	0	0	0	85
2F	0	0	0	24
3F	0	0	0	16
4F	0	0	0	3
5F	0	0	0	1
6F	0	0	0	0
7F	0	0	0	2
8F	1	0	0	1
9F	0	1	0	1
Total	1	1	0	244

**\$0040 - \$0060 are reserved for shift count IDs - Fracturing Transmission (THE00493)**

Actual Gear	2048Park	2304Park	Neutral	1F	2F	3F	4F	5F	6F
Actual Gear									
2048Park	0	0	0	0	0	0	0	0	0
2304Park	0	0	0	0	0	0	0	0	0
Neutral	0	0	0	3	0	0	0	0	0
1F	0	0	467	0	2423	0	0	0	0
2F	0	0	788	319	0	1842	3	0	0
3F	0	0	1052	0	234	0	846	0	0
4F	0	0	626	0	1	161	0	77	0
5F	0	0	47	0	0	0	27	0	1
6F	0	0	0	0	0	0	0	0	0
7F	0	0	0	0	0	0	0	1	0
8F	0	0	1	0	0	0	0	0	0
9F	0	0	0	0	0	0	0	0	0
Total	0	0	2981	322	2658	2003	876	78	1

**\$0040 - \$0060 are reserved for shift count IDs - Fracturing Transmission (THE00493)**

Actual Gear	7F	8F	9F	Total
Actual Gear				
2048Park	0	0	0	0
2304Park	0	0	0	0
Neutral	0	0	0	3
1F	0	0	0	2890
2F	0	0	0	2952
3F	0	0	0	2132
4F	0	0	0	865
5F	2	0	0	77
6F	1	0	0	1
7F	0	3	0	4
8F	1	0	2	4
9F	0	1	0	1
Total	4	4	2	8929

**Shift Count Matrix [Diagnostic Clock = Unavailable hours] - Fracturing Transmission (THE00493)**

To	N	R1	R2	1	2	3	4	5	6	7
From										
N	---	6264	0	3968	337	245	793	106	137	0
R1	5524	---	2192	2	0	0	0	0	0	0
R2	503	1671	---	0	0	0	0	0	0	0
1	1816	0	0	---	2530	0	0	0	0	0
2	858	0	0	376	---	1910	5	0	0	0
3	1163	0	0	0	281	---	914	0	0	0
4	1447	0	0	0	2	204	---	106	0	0

5	162	0	0	0	0	0	47	---	6	4
6	136	0	0	0	0	0	0	5	---	3
7	1	0	0	0	0	0	0	2	1	---

**Counters - Fracturing Transmission (THE00493)**

Description	Value
Lockup Clutch Count	3227