

2H28

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

FORD F-250 PTK9884 **Diesel Engine** DIESEL ENGINE OIL SAE 5W30 (--- GAL) RECOMMENDATION Test UOM Method Limit/Abn Current History1 History2 Client Info ARI0007587 ARI0006510 ARI0006534 Sample Number Oil and filter change at the time of sampling has been noted. Resample 27 Nov 2023 Sample Date **Client Info** 19 Aug 2023 04 Apr 2023 at the next service interval to monitor. 186487 Machine Age mls Client Info 179400 172500 Oil Age mls Client Info ٥ 0 0 0 **Client Info** 0 0 Filter Age mls Oil Changed **Client Info** Changed Changed Changed Filter Changed Changed Client Info Changed Changed NORMAL Sample Status NORMAL MARGINAL WEAR Iron ppm ASTM D5185m >100 12 9 17 Chromium ASTM D5185m >20 <1 ppm < <1 All component wear rates are normal. Nickel ASTM D5185m >2 1 0 <1 ppm Titanium ppm ASTM D5185m >2 0 0 <1 Silver ASTM D5185m >2 0 0 0 ppm Aluminum ppm ASTM D5185m >25 3 1 3 Lead ASTM D5185m >40 <1 0 <1 ppm Copper >330 14 14 16 ASTM D5185m ppm 2 Tin ppm ASTM D5185m >15 2 1 Vanadium mag ASTM D5185m <1 0 0 NONE NONE NONE White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE NONE CONTAMINATION Silicon ASTM D5185m >25 11 12 14 ppm Potassium 0 2 ppm ASTM D5185m >20 <1 There is no indication of any contamination in the oil. Fuel WC Method >5 <1.0 <1.0 A 3.3 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NFG NEG NFG Soot % % *ASTM D7844 >3 0 0 0.1 Nitration Abs/cm *ASTM D7624 >20 12.2 12.3 14.1 Sulfation Abs/.1mm *ASTM D7415 >30 25.5 26.5 31.4 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE *Visual NONE NONE Sand/Dirt NONE NONE scalar Appearance *Visual NORML NORML NORML NORML scalar Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar NEG NEG *Visual >0.2 NFG FLUID CONDITION Sodium ASTM D5185m 6 4 1 ppm 12 14 31 Boron ASTM D5185m 250 ppm The BN result indicates that there is suitable alkalinity remaining in the 2 Barium ppm ASTM D5185m 10 <1 8 oil. The condition of the oil is acceptable for the time in service. Molybdenum ASTM D5185m 45 50 79 ppm 100 Manganese ASTM D5185m 2 2 ppm 1 Magnesium ppm ASTM D5185m 450 374 413 509 Calcium ASTM D5185m 3000 1060 1078 997 ppm Phosphorus 574 604 673 ppm ASTM D5185m 1150 Zinc ppm ASTM D5185m 1350 681 695 799

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ppm

cSt

Abs/.1mm

mg KOH/g

ASTM D5185m 4250

>25

8.5

10.9

*ASTM D7414

ASTM D2896

ASTM D445

2245

19.9

4.0

9.4

2050

19.5

3.8

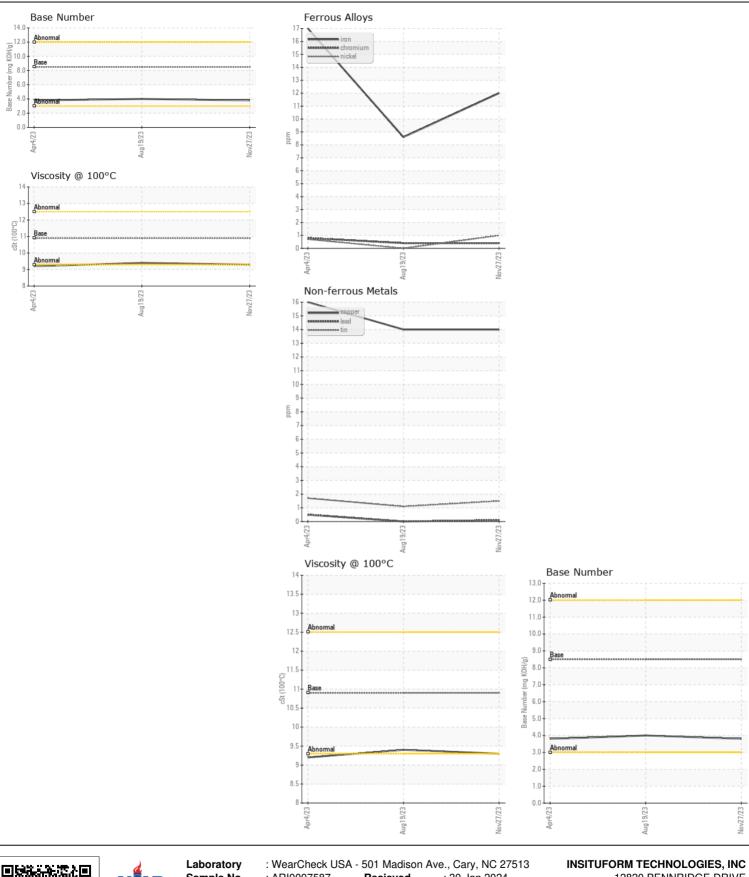
9.3

2841

24.7

3.8

9.2



Sample No. : ARI0007587 Recieved : 30 Jan 2024 12820 PENNRIDGE DRIVE Lab Number : 06074445 Diagnosed :01 Feb 2024 BRIDGETON, MO : 10856536 Unique Number Diagnostician : Jonathan Hester US 63044 Test Package : CONST (Additional Tests: TBN) Contact: RYAN MAINARD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. RMAINARD@INSITUFORM.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (816)590-9477 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: