



OIL REPORT

LAB NUMBER: P76251

UNIT ID: 21 BRONCO

REPORT DATE: 5/24/2022

CLIENT ID: 52323

CODE: 20/68

PAYMENT: CC Online

UNIT

MAKE/MODEL: Ford 1.5L EcoBoost
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Valvoline SynPower 0W/20
OIL USE INTERVAL: 5,000 Miles

COMMENTS

Your new Bronco Sport is off to a great start! Copper and silicon are elevated, but this is nearly always the case in the first few oil changes from a new engine. The copper comes from lingering brass/bronze wear-in, and silicon is mainly from residual factory sealers and lubes. This material often takes a few oil changes to disappear entirely, but before long we should see low silicon and a wear profile that matches up pretty well with universal averages. Those show mature 1.5L EcoBoost wear after about 6,300 miles of oil use. Just check back for wear-in updates.

| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil | 5,000 | UNIT / LOCATION AVERAGES | | | | | | UNIVERSAL AVERAGES |
|-------------------------------|-------------------|-----------|--------------------------------|--|--|--|--|--|-----------------------|
| | MI/HR on Unit | 6,105 | | | | | | | |
| | Sample Date | 5/17/2022 | | | | | | | |
| | Make Up Oil Added | | | | | | | | |
| | ALUMINUM | 4 | | | | | | | 6 |
| | CHROMIUM | 0 | | | | | | | 0 |
| | IRON | 11 | | | | | | | 12 |
| | COPPER | 29 | | | | | | | 1 |
| | LEAD | 1 | | | | | | | 0 |
| | TIN | 0 | | | | | | | 0 |
| | MOLYBDENUM | 266 | | | | | | | 82 |
| | NICKEL | 0 | | | | | | | 0 |
| | MANGANESE | 1 | | | | | | | 1 |
| | SILVER | 0 | | | | | | | 0 |
| | TITANIUM | 0 | | | | | | | 4 |
| | POTASSIUM | 7 | | | | | | | 3 |
| | BORON | 45 | | | | | | | 51 |
| | SILICON | 72 | | | | | | | 18 |
| | SODIUM | 5 | | | | | | | 14 |
| | CALCIUM | 1431 | | | | | | | 1301 |
| | MAGNESIUM | 517 | | | | | | | 565 |
| | PHOSPHORUS | 695 | | | | | | | 684 |
| | ZINC | 848 | | | | | | | 772 |
| | BARIUM | 1 | | | | | | | 2 |

Values
Should Be*

| PROPERTIES | SUS Viscosity @ 210°F | 47.0 | 46-57 | | | | | |
|------------|-----------------------|------|---------|--|--|--|--|--|
| | cSt Viscosity @ 100°C | 6.36 | 6.0-9.7 | | | | | |
| | Flashpoint in °F | 425 | >385 | | | | | |
| | Fuel % | <0.5 | <2.0 | | | | | |
| | Antifreeze % | 0.0 | 0.0 | | | | | |
| | Water % | 0.0 | <0.1 | | | | | |
| | Insolubles % | TR | <0.6 | | | | | |
| | TBN | | | | | | | |
| | TAN | | | | | | | |
| | ISO Code | | | | | | | |

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com