



OIL REPORT

LAB NUMBER: S243334

UNIT ID: 19 CX5

REPORT DATE: 6/23/2025

CLIENT ID: 126834

CODE: 20/1,487

PAYMENT: Prepaid

| | | |
|-------------|---------------------------------------|--|
| UNIT | MAKE/MODEL: Mazda 2.5L SkyActiv-G I-4 | OIL TYPE & GRADE: Quaker State Synthetic 0W/20 |
| | FUEL TYPE: Gasoline (Unleaded) | OIL USE INTERVAL: 6,188 Miles |
| | ADDITIONAL INFO: | |

| | | |
|---------------|-----------------------|-------------------------------|
| CLIENT | ALAN SHADDIX | PHONE: (205) 565-8100 |
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COMMENTS ALAN: Based on what we're seeing here, it looks like the CX-5 you picked up has a nice engine on board. Universal averages show average results from 2.5-liter SkyActiv-G engines after about 6,300 miles of oil use. That's about how long this oil was in use, so it's good to see metals are reading around or below average. It's a bit unusual to see aluminum higher than iron, but that's just something to note; at 5 ppm, aluminum indicates perfectly good piston/bearing wear. No fuel or coolant contamination is present. The 3.0 TBN is good. Nice first report. Go 8k miles next fill.

| | MI/HR on Oil | 6,188 | UNIT / LOCATION AVERAGES | | | | | UNIVERSAL AVERAGES |
|--------------------------------------|-------------------|-----------|--------------------------|--|--|--|-----|--------------------|
| | MI/HR on Unit | 103,316 | | | | | | |
| | Sample Date | 3/22/2025 | | | | | | |
| | Make Up Oil Added | 0 qts | | | | | | |
| ELEMENTS IN PARTS PER MILLION | ALUMINUM | 5 | 5 | | | | | 3 |
| | CHROMIUM | 0 | 0 | | | | | 0 |
| | IRON | 4 | 4 | | | | | 8 |
| | COPPER | 1 | 1 | | | | | 2 |
| | LEAD | 0 | 0 | | | | | 0 |
| | TIN | 0 | 0 | | | | | 0 |
| | MOLYBDENUM | 209 | 209 | | | | | 143 |
| | NICKEL | 0 | 0 | | | | | 0 |
| | MANGANESE | 3 | 3 | | | | | 0 |
| | SILVER | 0 | 0 | | | | | 0 |
| | TITANIUM | 0 | 0 | | | | | 4 |
| | POTASSIUM | 1 | 1 | | | | | 9 |
| | BORON | 45 | 45 | | | | | 75 |
| | SILICON | 13 | 13 | | | | | 12 |
| | SODIUM | 3 | 3 | | | | | 11 |
| | CALCIUM | 1079 | 1079 | | | | | 1283 |
| | MAGNESIUM | 429 | 429 | | | | | 527 |
| PHOSPHORUS | 491 | 491 | | | | | 657 | |
| ZINC | 651 | 651 | | | | | 751 | |
| BARIUM | 0 | 0 | | | | | 0 | |

Values Should Be*

| | | | | | | | |
|-------------------|-----------------------|------|---------|--|--|--|--|
| PROPERTIES | SUS Viscosity @ 210°F | 51.8 | 46-57 | | | | |
| | cSt Viscosity @ 100°C | 7.81 | 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 | 3.0 | >2.0 | | | | |
| | TAN | | | | | | |
| | ISO Code | | | | | | |

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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