

BLACKSTONE

LABORATORIES

P.O. NUMBER Prepaid
CODE: 20/16326/37

OIL REPORT

UNIT NUMBER 9236
REPORT DATE: 2/2/06
LAB NUMBER: C65859

| | | |
|--------|-----------------------|---------|
| CLIENT | CONTACT: | PHONE: |
| | NAME: ELLIS G. HYGEMA | FAX: |
| | ADDRESS: | E-MAIL: |
| | WARSAW, IN 46580 | |

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|------|---|---|
| UNIT | EQUIPMENT MAKE: Cummins | OIL USE INTERVAL: 25,794 Miles |
| | EQUIPMENT MODEL: 6 BT 5.9 Liter | OIL TYPE & GRADE: Mobil 1 5W/40 Truck & |
| | FUEL TYPE: Diesel | MAKE-UP OIL ADDED: 2 qts |
| | ADDITIONAL INFO: Frantz T/P Oil Filter changed every 10,000 mi. | |

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| COMMENTS: | ELLIS: Again, no problems showed up in the latest sample from your Cummins. Bearing wear stayed low and all other wear continues to read well within the average range. This is excellent considering you are running the oil a lot longer than average. The oil itself was still in good shape. No fuel or anti-freeze was found. Insolubles and soot levels were both low. Your engine look better after 25,000 miles than a lot them do after only 6,000 or 7,000 miles. At 254,340 total miles, we think this engine is doing well. Try 30,000 miles on the next oil. |
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| ELEMENTS IN PARTS PER MILLION | MI/HR ON OIL | 25,794 | UNIT / LOCATION AVERAGES | 20,671 | 27,500 | 28,000 | 10,000 | 29,311 | UNIVERSAL AVERAGES |
|-------------------------------|---------------|----------|--------------------------------|----------|----------|----------|----------|----------|-----------------------|
| | MI/HR ON UNIT | 254,340 | | 205,540 | 184,869 | 157,322 | 129,300 | 119,374 | |
| | SAMPLE DATE | 01/28/06 | | 09/13/05 | 07/29/05 | 05/15/05 | 02/15/05 | 01/11/05 | |
| | | | | | | | | | |
| | ALUMINUM | 5 | 4 | 1 | 2 | 2 | 3 | 7 | 4 |
| | CHROMIUM | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | IRON | 30 | 28 | 25 | 33 | 29 | 22 | 33 | 23 |
| | COPPER | 2 | 15 | 2 | 4 | 7 | 25 | 74 | 4 |
| | LEAD | 5 | 4 | 4 | 9 | 6 | 0 | 5 | 3 |
| | TIN | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| MOLYBDENUM | 2 | 11 | 2 | 2 | 3 | 2 | 3 | 16 | |
| NICKEL | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| MANGANESE | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | |
| SILVER | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | |
| TITANIUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| POTASSIUM | 5 | 6 | 2 | 3 | 3 | 6 | 16 | 2 | |
| BORON | 28 | 36 | 25 | 18 | 30 | 33 | 28 | 99 | |
| SILICON | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 8 | |
| SODIUM | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 5 | |
| CALCIUM | 2814 | 2729 | 2578 | 2597 | 2739 | 2316 | 3157 | 2805 | |
| MAGNESIUM | 564 | 460 | 544 | 499 | 600 | 472 | 516 | 282 | |
| PHOSPHORUS | 1144 | 1104 | 1153 | 1111 | 1133 | 1069 | 1198 | 1075 | |
| ZINC | 1496 | 1365 | 1456 | 1473 | 1372 | 1311 | 1490 | 1249 | |
| BARIUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |

| PROPERTIES | TEST | cST VISCOSITY @ 40 °C | SUS VISCOSITY @ 100 °F | VISCOSITY INDEX | cST VISCOSITY @ 100 °C | SUS VISCOSITY @ 210 °F | FLASHPOINT IN °F | FUEL % | ANTIFREEZE % | WATER % | INSOLUBLES % |
|------------|--------------------|-----------------------|------------------------|-----------------|------------------------|------------------------|------------------|--------|--------------|---------|--------------|
| | VALUES SHOULD BE | | | | | 65-76 | >410 | <2.0 | 0 | <0.1 | <0.6 |
| | TESTED VALUES WERE | | | | | 73.9 | 465 | <0.5 | 0.0 | 0.0 | 0.3 |