

OIL ANALYSIS REPORT

Sample Rating Trend



TROJAN 40007

Component Diesel Engine Fluid KENDALL 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

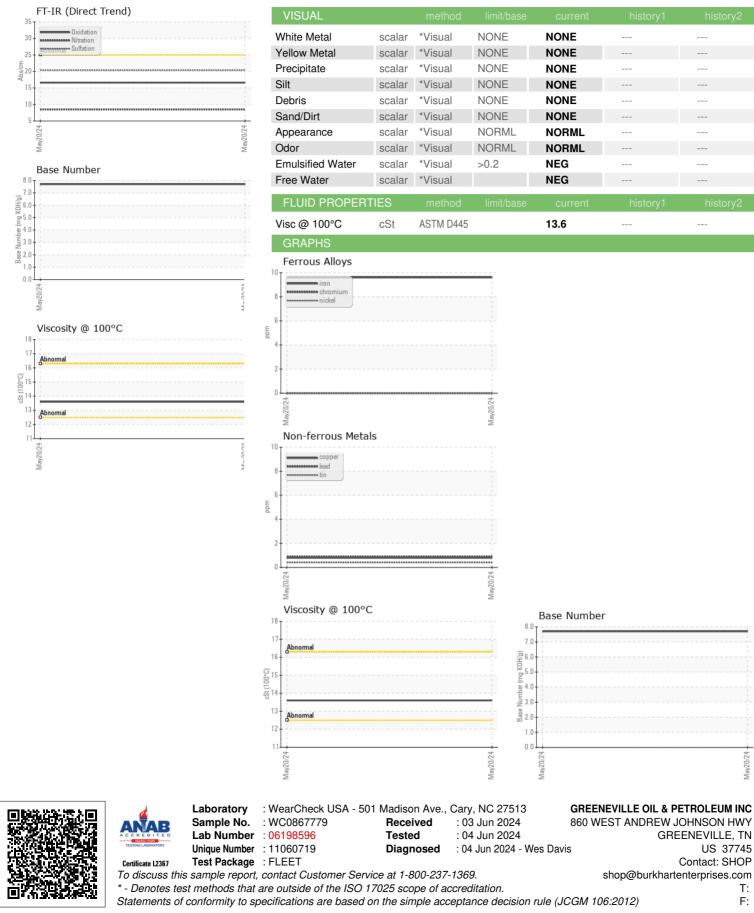
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---|--|---|---|--|--|--|
| Sample Number | | Client Info | | WC0867779 | | |
| Sample Date | | Client Info | | 20 May 2024 | | |
| Machine Age | hrs | Client Info | | 2849 | | |
| Oil Age | hrs | Client Info | | 203 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATION | ۷ | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 10 | | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 83 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 1 | | |
| Lead | ppm | ASTM D5185m | >40 | <1 | | |
| Copper | ppm | ASTM D5185m | >330 | <1 | | |
| Tin | ppm | ASTM D5185m | >15 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185m | limit/base 6.3 | current 173 | history1 | history2 |
| | ppm ppm | | | | | |
| Boron | | ASTM D5185m | 6.3 | 173 | | |
| Boron Barium | ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 | 173 0 | | |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 | 173 0 4 | | |
| Boron Barium Molybdenum Manganese | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 | 173 0 4 1 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 | 173 0 4 1 420 1702 1002 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 | 173 0 4 1 420 1702 1002 1174 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 | 173 0 4 1 420 1702 1002 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 | 173 0 4 1 420 1702 1002 1174 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 2592 | 173 0 4 1 420 1702 1002 1174 4390 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 2777 1514 634 743 2592 limit/base | 173 0 4 1 420 1702 1002 1174 4390 current | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 2777 1514 634 743 2592 limit/base | 173 0 4 1 420 1702 1002 1174 4390 current 4 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 2777 1514 634 743 2592 limit/base >25 | 173 0 4 1 420 1702 1002 1174 4390 current 4 4 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 2777 1514 634 743 2592 limit/base >25 >20 | 173 0 4 1 420 1702 1002 1174 4390 current 4 4 4 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 2777 1514 634 743 2592 limit/base >25 >20 | 173 0 4 1 420 1702 1002 1174 4390 current 4 4 4 4 4 4 2 | history1 history1 | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % | ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 2592 limit/base >25 >20 limit/base >3 | 173 0 4 1 420 1702 1002 1174 4390 current 4 4 4 4 2 4 0.4 | history1 history1 history1 | history2 history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 2592 imit/base >25 20 imit/base >20 | 173 0 4 1 1 420 1702 1002 1174 4390 <u>current</u> 4 4 4 4 0.4 8.5 | history1 history1 history1 | history2 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 6.3 0.6 0.4 277 1514 634 743 2592 imit/base >25 20 imit/base >3 >20 >30 | 173 0 4 1 1 420 1702 1002 1174 4390 <u>current</u> 4 4 4 4 4 4 4 5 20.4 | history1 history1 history1 | history2 history2 history2 |



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Contact/Location: SHOP ? - GREGRETN

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