

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

INTERNATIONAL 63

Component Diesel Engine Fluid DEZOL 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Light fuel dilution occurring. Test for glycol is negative.

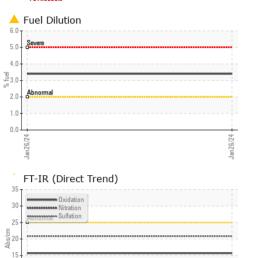
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|--|---|--|---|---|----------------------|---------------------------------------|
| Sample Number | | Client Info | | SBP06178320 | | |
| Sample Date | | Client Info | | 26 Jan 2024 | | |
| Machine Age | mls | Client Info | | 352197 | | |
| Oil Age | mls | Client Info | | 965 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATION | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 48 | | |
| Chromium | ppm | ASTM D5185m | >20 | 1 | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 15 | | |
| Lead | ppm | ASTM D5185m | >40 | 1 | | |
| Copper | ppm | ASTM D5185m | >330 | 5 | | |
| Tin | ppm | ASTM D5185m | >15 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | | | 11 11 11 | - | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 70 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | | 1002 | | |
| Calcium | ppm | ASTM D5185m | | 1147 | | |
| Phosphorus | ppm | ASTM D5185m | | 1047 | | |
| Zinc | ppm | ASTM D5185m | | 1236 | | |
| Sulfur | ppm | ASTM D5185m | | 3585 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| | | | | 00.1101.11 | matory | · · · · · · · · · · · · · · · · · · · |
| Silicon | ppm | ASTM D5185m | >25 | 14 | | |
| Silicon Sodium | | | >25 | | | |
| | ppm | ASTM D5185m | | 14 | | |
| Sodium | ppm ppm | ASTM D5185m ASTM D5185m | | 14 ● 94 | | |
| Sodium Potassium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | >20 | 14 ● 94 11 | | |
| Sodium Potassium Fuel | ppm ppm ppm % | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 | >20 | 14 ● 94 11 ▲ 3.4 | | |
| Sodium Potassium Fuel Glycol | ppm ppm ppm % | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D2982 | >20 >2.0 | 14 ● 94 11 ▲ 3.4 NEG current | | |
| Sodium Potassium Fuel Glycol INFRA-RED Soot % | ppm ppm % % | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D2982 method *ASTM D7844 | >20 >2.0 limit/base | 14 ● 94 11 ▲ 3.4 NEG | history1 | history2 |
| Sodium Potassium Fuel Glycol INFRA-RED | ppm ppm % % | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D2982 method | >20 >2.0 limit/base >3 >20 | 14 ● 94 11 ▲ 3.4 NEG current 0.6 | history1 | history2 |
| Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration | ppm ppm % % % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D2982 method *ASTM D7844 *ASTM D7824 | >20 >2.0 limit/base >3 >20 | 14 ● 94 11 ▲ 3.4 NEG current 0.6 8.8 | history1 | history2 |
| Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration Sulfation | ppm ppm % % % Abs/cm Abs/.1mm | ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415 | >20 >2.0 limit/base >3 >20 >30 | 14 ● 94 11 ▲ 3.4 NEG Current 0.6 8.8 20.8 | history1 | history2 |



OIL ANALYSIS REPORT



Glycol Contamination

potassium

Base Number

Glycol Contamination

100

8

61

4(2

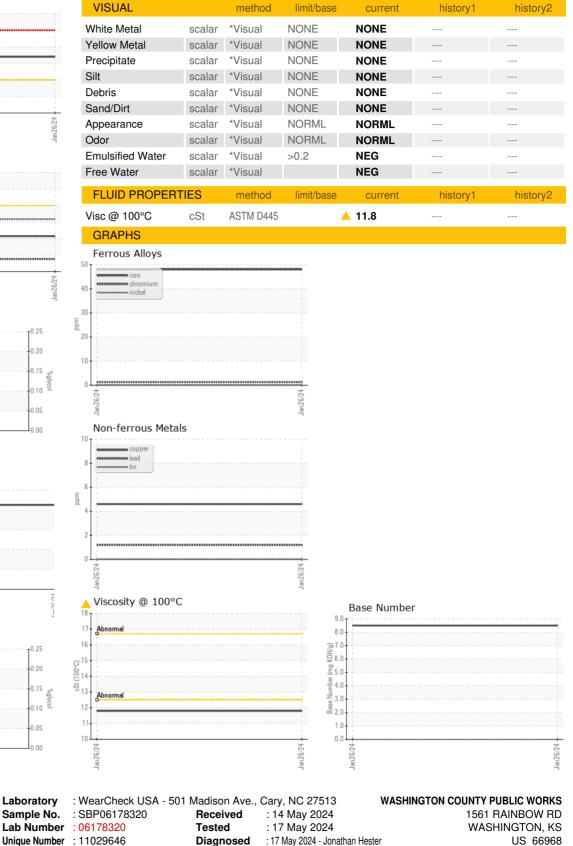
10.

100

80

20

(mg KOH/g) 6 4 (Base





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: WASWASUS [WUSCAR] 06178320 (Generated: 05/17/2024 10:53:16) Rev: 1

Certificate 12367

0.20

0.10

0.05

0.00

.20

.15

10

0.05

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Contact/Location: KELSIE BEIKMANN - WASWASUS

Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T:

F:

Contact: KELSIE BEIKMANN

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