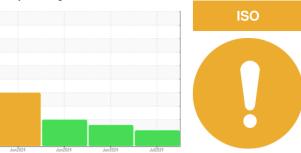


## **OIL ANALYSIS REPORT**



Machine Id FP60 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil.

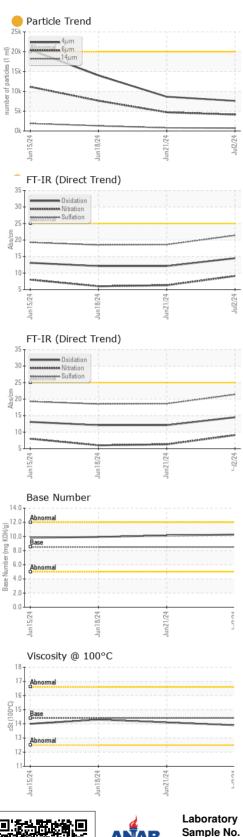
#### Fluid Condition

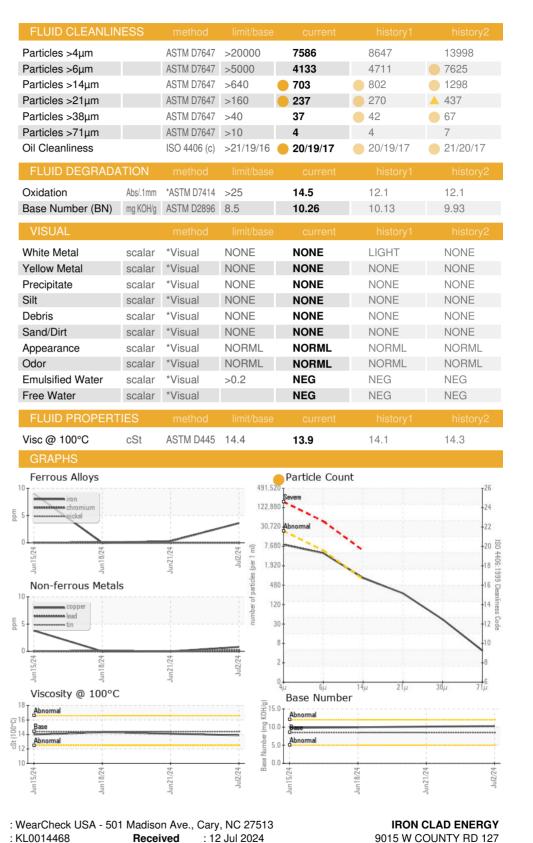
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| SAMPLE INFORM | IATION   | method      | limit/base | current     | history1    | history2    |
|---------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number |          | Client Info |            | KL0014468   | KL0014467   | KL0014466   |
| Sample Date   |          | Client Info |            | 02 Jul 2024 | 21 Jun 2024 | 18 Jun 2024 |
| Machine Age   | hrs      | Client Info |            | 12212       | 11952       | 11879       |
| Oil Age       | hrs      | Client Info |            | 374         | 114         | 40          |
| Oil Changed   |          | Client Info |            | Not Changd  | Not Changd  | Not Changd  |
| Sample Status |          |             |            | ATTENTION   | ATTENTION   | ABNORMAL    |
| CONTAMINATION | N        | method      | limit/base | current     | history1    | history2    |
| Fuel          |          | WC Method   | >5         | <1.0        | <1.0        | <1.0        |
| Water         |          | WC Method   | >0.2       | NEG         | NEG         | NEG         |
| Glycol        |          | WC Method   |            | NEG         | NEG         | NEG         |
| WEAR METALS   |          | method      | limit/base | current     | history1    | history2    |
| Iron          | ppm      | ASTM D5185m | >100       | 4           | <1          | 0           |
| Chromium      | ppm      | ASTM D5185m | >20        | 0           | 0           | 0           |
| Nickel        | ppm      | ASTM D5185m | >4         | 0           | 0           | <1          |
| Titanium      | ppm      | ASTM D5185m |            | <1          | <1          | <1          |
| Silver        | ppm      | ASTM D5185m | >3         | 0           | 0           | 0           |
| Aluminum      | ppm      | ASTM D5185m | >20        | 2           | <1          | <1          |
| Lead          | ppm      | ASTM D5185m | >40        | 0           | 0           | 0           |
| Copper        | ppm      | ASTM D5185m | >330       | <1          | 0           | 0           |
| Tin           | ppm      | ASTM D5185m | >15        | <1          | 0           | <1          |
| Vanadium      | ppm      | ASTM D5185m |            | 0           | 0           | 0           |
| Cadmium       | ppm      | ASTM D5185m |            | 0           | 0           | <1          |
| ADDITIVES     |          | method      | limit/base | current     | history1    | history2    |
| Boron         | ppm      | ASTM D5185m | 250        | 76          | 83          | 86          |
| Barium        | ppm      | ASTM D5185m | 10         | 0           | 0           | 0           |
| Molybdenum    | ppm      | ASTM D5185m | 100        | <1          | 0           | 0           |
| Manganese     | ppm      | ASTM D5185m |            | 0           | <1          | <1          |
| Magnesium     | ppm      | ASTM D5185m | 450        | 729         | 715         | 733         |
| Calcium       | ppm      | ASTM D5185m | 3000       | 1470        | 1378        | 1411        |
| Phosphorus    | ppm      | ASTM D5185m | 1150       | 1136        | 1068        | 1089        |
| Zinc          | ppm      | ASTM D5185m | 1350       | 1333        | 1201        | 1251        |
| Sulfur        | ppm      | ASTM D5185m | 4250       | 5518        | 5109        | 5266        |
| CONTAMINANTS  |          | method      | limit/base | current     | history1    | history2    |
| Silicon       | ppm      | ASTM D5185m | >25        | 4           | 3           | 4           |
| Sodium        | ppm      | ASTM D5185m | >216       | <1          | 2           | 2           |
| Potassium     | ppm      | ASTM D5185m | >20        | 2           | 2           | 3           |
| INFRA-RED     |          | method      | limit/base | current     | history1    | history2    |
| Soot %        | %        | *ASTM D7844 | >3         | 0.2         | 0.1         | 0.1         |
| Nitration     | Abs/cm   | *ASTM D7624 |            | 9.1         | 6.3         | 6.0         |
| Sulfation     | Abs/.1mm | *ASTM D7415 | >30        | 21.4        | 18.6        | 18.5        |



# **OIL ANALYSIS REPORT**







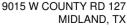
Test Package : MOB 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: TREVOR FRENETTE - IROMID Report Id: IROMID [WUSCAR] 06235120 (Generated: 07/15/2024 15:52:12) Rev: 1

: 06235120

Lab Number

Certificate 12367

Unique Number : 11123954



US 79706 Contact: TREVOR FRENETTE

T: F:

Tested

Diagnosed

: 15 Jul 2024

: 15 Jul 2024 - Sean Felton

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