

# **OIL ANALYSIS REPORT**

# **NORMAL**



# (P1021275) Dixon Transport-Tractor [Dixon Transport-Tractor] 325A325536

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (11 GAL)

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

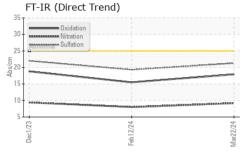
# **Fluid Condition**

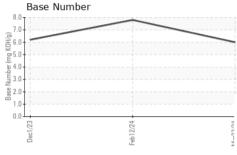
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

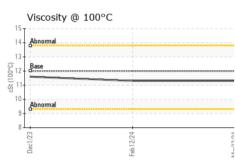
| GAL)             |          | De          | 2023       | Feb2024 Mar202 | 24          |             |
|------------------|----------|-------------|------------|----------------|-------------|-------------|
| SAMPLE INFORI    | MATION   | method      | limit/base | current        | history1    | history2    |
| Sample Number    |          | Client Info |            | PCA0121193     | PCA0114345  | PCA0114321  |
| Sample Date      |          | Client Info |            | 22 Mar 2024    | 12 Feb 2024 | 01 Dec 2023 |
| Machine Age      | mls      | Client Info |            | 559470         | 543441      | 522919      |
| Oil Age          | mls      | Client Info |            | 36551          | 20522       | 40251       |
| Oil Changed      |          | Client Info |            | Changed        | Not Changd  | Changed     |
| Sample Status    |          |             |            | NORMAL         | NORMAL      | NORMAL      |
| CONTAMINAT       | ION      | 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 METAL       | S        | method      | limit/base | current        | history1    | history2    |
| Iron             | ppm      | ASTM D5185m | >80        | 28             | 17          | 21          |
| Chromium         | ppm      | ASTM D5185m | >5         | 2              | 2           | 1           |
| Nickel           | ppm      | ASTM D5185m | >2         | 1              | 1           | <1          |
| Titanium         | ppm      | ASTM D5185m |            | <1             | 0           | 0           |
| Silver           | ppm      | ASTM D5185m | >3         | 0              | 0           | 0           |
| Aluminum         | ppm      | ASTM D5185m | >30        | 10             | 8           | 6           |
| Lead             | ppm      | ASTM D5185m | >30        | 0              | <1          | <1          |
| Copper           | ppm      | ASTM D5185m | >150       | 6              | 5           | 4           |
| Tin              | ppm      | ASTM D5185m | >5         | 0              | <1          | 0           |
| Vanadium         | ppm      | ASTM D5185m |            | <1             | <1          | 0           |
| Cadmium          | ppm      | ASTM D5185m |            | 0              | 0           | 0           |
| ADDITIVES        |          | method      | limit/base | current        | history1    | history2    |
| Boron            | ppm      | ASTM D5185m | 2          | 3              | 6           | 0           |
| Barium           | ppm      | ASTM D5185m | 0          | 0              | 0           | 0           |
| Molybdenum       | ppm      | ASTM D5185m | 50         | 61             | 60          | 59          |
| Manganese        | ppm      | ASTM D5185m | 0          | <1             | <1          | 0           |
| Magnesium        | ppm      | ASTM D5185m | 950        | 1017           | 1007        | 1066        |
| Calcium          | ppm      | ASTM D5185m | 1050       | 1168           | 1132        | 1225        |
| Phosphorus       | ppm      | ASTM D5185m | 995        | 1055           | 1050        | 1085        |
| Zinc             | ppm      | ASTM D5185m | 1180       | 1318           | 1287        | 1264        |
| Sulfur           | ppm      | ASTM D5185m | 2600       | 3225           | 2844        | 2700        |
| CONTAMINAN       | ITS      | method      | limit/base | current        | history1    | history2    |
| Silicon          | ppm      | ASTM D5185m | >20        | 7              | 5           | 7           |
| Sodium           | ppm      | ASTM D5185m |            | 2              | 2           | <1          |
| Potassium        | ppm      | ASTM D5185m | >20        | 2              | 2           | <1          |
| INFRA-RED        |          | method      | limit/base | current        | history1    | history2    |
| Soot %           | %        | *ASTM D7844 | >3         | 0.7            | 0.4         | 0.7         |
| Nitration        | Abs/cm   | *ASTM D7624 | >20        | 9.2            | 8.0         | 9.4         |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30        | 21.3           | 19.3        | 22.0        |
| FLUID DEGRA      | OATION   | method      | limit/base | current        | history1    | history2    |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25        | 17.9           | 15.5        | 18.8        |
| Base Number (BN) | mg KOH/g | ASTM D2896  |            | 6.0            | 7.8         | 6.2         |
|                  |          |             |            |                |             |             |



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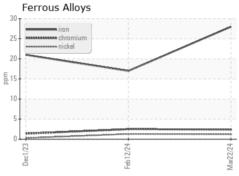


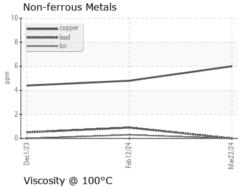


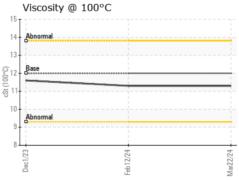
| VISUAL                  |        | method  | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal             | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Yellow Metal            | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Precipitate             | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Silt                    | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Debris                  | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Sand/Dirt               | scalar | *Visual | NONE       | NONE    | NONE     | NONE     |
| Appearance              | scalar | *Visual | NORML      | NORML   | NORML    | NORML    |
| Odor                    | scalar | *Visual | NORML      | NORML   | NORML    | NORML    |
| <b>Emulsified Water</b> | scalar | *Visual | >0.2       | NEG     | NEG      | NEG      |
| Free Water              | scalar | *Visual |            | NEG     | NEG      | NEG      |

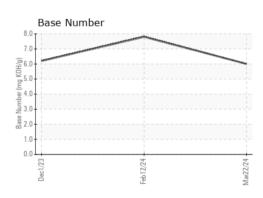
| FLUID PROPI  | ERHES | method    |       |      | history1 | history2 |
|--------------|-------|-----------|-------|------|----------|----------|
| Visc @ 100°C | cSt   | ASTM D445 | 12.00 | 11.3 | 11.3     | 11.6     |

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0121193 Lab Number : 06142021 Unique Number : 10966829

Test Package : FLEET

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

1124 E. River Road Dixon, IL US 61021 Contact: Mike Shoemaker

Shop3250@transervice.com

Transervice - Shop 3250 - Dixon Transport

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)

Report Id: TSV3250 [WUSCAR] 06142021 (Generated: 04/09/2024 15:40:13) Rev: 1

Submitted By: Mike Shoemaker

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