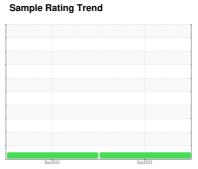


OIL ANALYSIS REPORT



NORMAL



DHP15BLKTOP

Component

1 New (Unused) Oil

WADDICK FUELS (--- LTR)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

{not applicable}

Contamination

{not applicable}

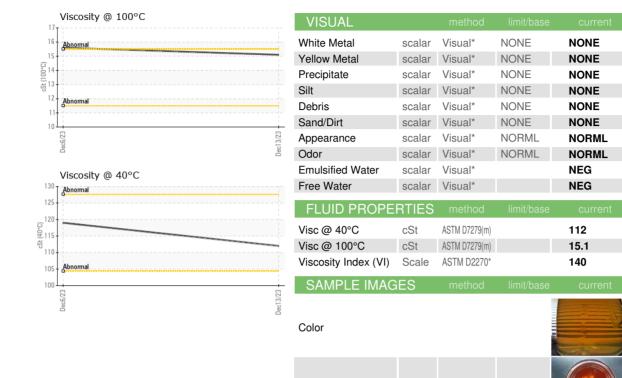
Fluid Condition

{not applicable}

| | | | Dec2023 | Dec2023 | | |
|---------------|----------|---------------|------------|-------------|-------------|----------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PC | PC | |
| Sample Date | | Client Info | | 13 Dec 2023 | 06 Dec 2023 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINAT | ΓΙΟΝ | method | limit/base | current | history1 | history2 |
| Water | | WC Method | | NEG | NEG | |
| WEAR METAI | _S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | | <1 | <1 | |
| Chromium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Nickel | ppm | ASTM D5185(m) | | 0 | 0 | |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185(m) | | 1 | 1 | |
| Lead | ppm | ASTM D5185(m) | | <1 | 0 | |
| Copper | ppm | ASTM D5185(m) | | 0 | 0 | |
| Tin | ppm | ASTM D5185(m) | | 0 | 0 | |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | 2 | <1 | |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185(m) | | 58 | 59 | |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | |
| Magnesium | ppm | ASTM D5185(m) | | 1020 | 1010 | |
| Calcium | ppm | ASTM D5185(m) | | 1040 | 1020 | |
| Phosphorus | ppm | ASTM D5185(m) | | 1080 | 1100 | |
| Zinc | ppm | ASTM D5185(m) | | 1190 | 1210 | |
| Sulfur | ppm | ASTM D5185(m) | | 2870 | 2920 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | |
| CONTAMINA | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | | 4 | 4 | |
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | | 0 | 0 | |
| Nitration | Abs/cm | ASTM D7624* | | 4.1 | 4.0 | |
| Sulfation | Abs/.1mm | ASTM D7415* | | 17.7 | 17.7 | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | ASTM D7414* | | 12.7 | 12.6 | |



OIL ANALYSIS REPORT



Bottom

GRAPHS



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Petro-Canada Technical/Nick Finelli : PC

: 02604930 : 5698015

Recieved Diagnosed Diagnostician

: Kevin Marson

: 22 Dec 2023

: 28 Dec 2023 Test Package : TEST (Additional Tests: FT-IR, ICP, ICP-NEWOIL, KV100, KV40, Spat, VI)

Contact: Nick Finelli nick.finelli@hfsinclair.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

T: F: (877)352-8916

Mississauga, ON

CA L5J 1K2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

119

15.6

138

no image

no image