

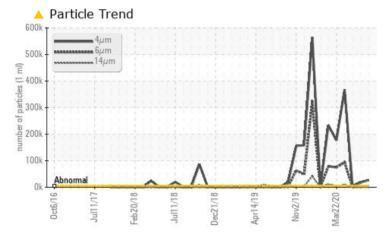
PROBLEM SUMMARY

Fwd Machinery Space [450222454] Thruster Fwd Aft - Seal Oil System (S/N Sample Tag CL-06004-S3) Component Sealing System

Fluid

PETRO CANADA ENERGOL GR-XP ISO 150 (65 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | |
|--------------------------|--------------|-----------|-------------------|---------------|----------|--|--|
| Sample Status | | | ABNORMAL | ABNORMAL | NORMAL | | |
| Particles >4µm | ASTM D7647 | >5000 | <u> </u> | 1 8144 | 3651 | | |
| Particles >6µm | ASTM D7647 | >1300 | 4 918 | 4 3453 | 891 | | |
| Particles >14µm | ASTM D7647 | >160 | <u> </u> | 84 | 40 | | |
| Particles >21µm | ASTM D7647 | >40 | <mark>/</mark> 76 | 23 | 10 | | |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | <u> </u> | 🔺 21/19/14 | 19/17/12 | | |

Customer Id: TERHAM Sample No.: PC0076466 Lab Number: 02599116 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



| RECOMMENDED ACTIONS | | | | | | |
|---------------------|--------|------|---------|---|--|--|
| Action | Status | Date | Done By | Description | | |
| Change Filter | | | ? | We recommend you service the filters on this component. | | |
| Resample | | | ? | We recommend an early resample to monitor this condition. | | |

HISTORICAL DIAGNOSIS



06 Jul 2020 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.





Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.





15 Apr 2020 Diag: Kevin Marson Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this fluid. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Particles >14um are severely high. Particles >21µm are severely high. Particles >6µm are severely high. Particles >4µm are severely high. Water contamination levels are abnormally high. Water contamination levels are abnormally high.. ppm Water contamination levels are abnormally high. ppm Water contamination levels are abnormally high.. Particles >38µm are abnormally high. There is a moderate concentration of water present in the fluid. Free water present. The AN level is acceptable for this fluid. The fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

view report





OIL ANALYSIS REPORT

Fwd Machinery Space [450222454] Machine Id **Thruster Fwd Aft - Seal Oil System (S/N Sample Tag CL-06004-S3)** Component

Sealing System

PETRO CANADA ENERGOL GR-XP ISO 150 (65 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

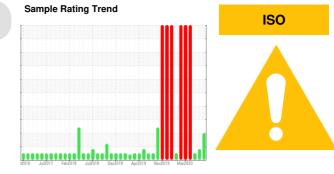
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

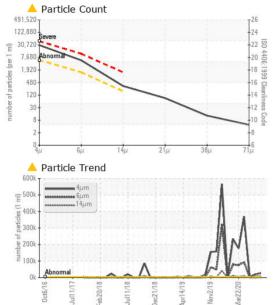
The AN level is acceptable for this fluid. The fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

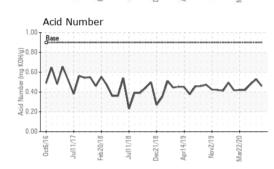


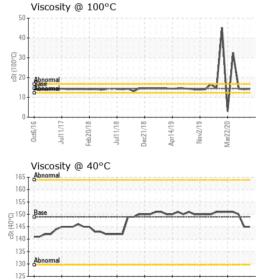
| Sample Number Client Info PC0076466 PC PC Sample Date I Client Info 0 0.5 Jul 2020 0.8 Jun 2020 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Irs Client Info 0 0 0 Sample Status Image Image N/A N/A N/A Sample Status Image Image Image NEG NEG NEG Water WC Method Image current history1 history2 PQ ASTM D8184/ 0 0 0 0 Iron ppm ASTM D8185// >3 0 0 0 Nickel ppm ASTM D8185// >3 0 0 0 Silver ppm ASTM D8185// >3 0 0 0 Silver ppm ASTM D8185// | SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|--|---------------|-------|---------------|------------|-------------|-------------|-------------|
| Machine Age hrs Client Info 0 0 0 Oil Ghanged Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Client Info N/A ABNORMAL ABNORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method Imit/base current history1 history2 PQ ASTM DB184* 0 0 0 0 Iron ppm ASTM DB185(m) >3 0 0 0 Chromium ppm ASTM DB185(m) >3 0 0 0 Iron ppm ASTM DB185(m) >3 0 0 0 Iron ppm ASTM DB185(m) >3 0 0 0 Iron ppm ASTM DB185(m) <1 | Sample Number | | Client Info | | PC0076466 | PC | PC |
| Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Imit/base current history1 history2 Water WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8185(m) >100 1 0 0 0 Iron ppm ASTM D8185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Copper ppm ASTM D5185(m) >3 0 0 0 Antimony ppm ASTM D5185(m) >3 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Antimony ppm | Sample Date | | Client Info | | 09 Nov 2023 | 06 Jul 2020 | 08 Jun 2020 |
| Oil Changed Sample Status Client Info N/A N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Water WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D5185(m) >100 1 0 0 Iron ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 41 <1 <1 Auminum ppm ASTM D5185(m) >3 41 <1 <1 Auminum ppm ASTM D5185(m) >3 61 0 0 Copper ppm ASTM D5185(m) 0 0 0 1 Auminum ppm ASTM D5185(m) 0 0 0 1 Vanadium ppm ASTM D5185(m) </td <td>Machine Age</td> <td>nrs</td> <td>Client Info</td> <td></td> <th>0</th> <td>0</td> <td>0</td> | Machine Age | nrs | Client Info | | 0 | 0 | 0 |
| Sample Status Image of the status ABNORMAL ABNORMAL ABNORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D5185(m) >100 1 0 0 Iron ppm ASTM D5185(m) >3 0 0 0 Chromium ppm ASTM D5185(m) >8 0 <1 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 0 Copper ppm ASTM D5185(m) >3 0 0 0 0 Copper ppm ASTM D5185(m) 0 0 0 0 Cadadium ppm ASTM D5185(m) 0 | Oil Age | nrs | Client Info | | 0 | 0 | 0 |
| CONTAMINATION method limit/base current history1 history2 Water WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 0 0 0 0 Iron ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 | Oil Changed | | Client Info | | N/A | N/A | N/A |
| Water WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 0 0 0 Iron ppm ASTM D5185(m) >100 1 0 0 Chromium ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 | Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |
| WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 0 0 0 0 Iron ppm ASTM D5185(m) >100 1 0 0 Chromium ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) <<1 | CONTAMINATIC | N | method | limit/base | current | history1 | history2 |
| PQ ASTM D8184* 0 0 0 Iron ppm ASTM D5185(m) >100 1 0 0 Othermium ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Titanium ppm ASTM D5185(m) < 0 0 0 Silver ppm ASTM D5185(m) <3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 <1 <1 <1 Lead ppm ASTM D5185(m) >3 <1 <1 <1 <1 Attmosy ppm ASTM D5185(m) 0 0 0 0 0 Attmosy ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Boron ppm ASTM D5185(m) 0 0 | Water | | WC Method | | NEG | NEG | NEG |
| Iron ppm ASTM D5185(m) >100 1 0 0 Chromium ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >8 0 <1 0 Titanium ppm ASTM D5185(m) 0 0 0 0 Silver ppm ASTM D5185(m) >3 0 0 0 Aluminum ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 <1 <1 Tin ppm ASTM D5185(m) 3 <1 | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Chromium ppm ASTM D5185(m) >3 0 0 0 Nickel ppm ASTM D5185(m) >3 0 0 0 Titanium ppm ASTM D5185(m) >3 0 0 0 Silver ppm ASTM D5185(m) <1 <1 <1 <1 Aluminum ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 <1 <1 Copper ppm ASTM D5185(m) >3 <1 <1 <1 Tin ppm ASTM D5185(m) 0 0 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Boron ppm ASTM D5185(m) 0 0 | PQ | | ASTM D8184* | | 0 | 0 | 0 |
| Nickel ppm ASTM D5185(m) >8 0 <1 0 Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) <1 | Iron p | opm | ASTM D5185(m) | >100 | 1 | 0 | 0 |
| Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) <1 | Chromium p | opm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Silver ppm ASTM D5185(m) <1 <1 <1 Aluminum ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) >3 <1 | Nickel p | opm | ASTM D5185(m) | >8 | 0 | <1 | 0 |
| Aluminum ppm ASTM D5185(m) >3 0 0 0 Lead ppm ASTM D5185(m) <1 0 0 Copper ppm ASTM D5185(m) >3 <1 <1 <1 Tin ppm ASTM D5185(m) 0 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) 61 0 0 Molybdenum ppm ASTM D5185(m) 61 336 335 Magnesium | Titanium p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Lead ppm ASTW D5185(m) <1 0 0 Copper ppm ASTW D5185(m) >3 <1 | Silver p | opm | ASTM D5185(m) | | <1 | <1 | <1 |
| Copper ppm ASTM D5185(m) >3 <1 <1 <1 Tin ppm ASTM D5185(m) 0 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 <1 | Aluminum p | opm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Tin ppm ASTM D5185(m) 0 0 0 0 Antimony ppm ASTM D5185(m) 0 0 <1 | Lead p | opm | ASTM D5185(m) | | <1 | 0 | 0 |
| Antimony ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 | Copper p | opm | ASTM D5185(m) | >3 | <1 | <1 | <1 |
| Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ACM ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 | Tin p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 0 <1 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 29 <1 <1 0 Calcium ppm ASTM D5185(m) 165 336 335 335 Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 <1 <1 1 CONTAMINANTS | Antimony p | opm | ASTM D5185(m) | | 0 | 0 | <1 |
| Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 0 <1 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 29 <1 <1 0 Calcium ppm ASTM D5185(m) 29 <1 <1 <1 Phosphorus ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm | Vanadium p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 | Beryllium p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Boron ppm ASTM D5185(m) 13 11 10 Barium ppm ASTM D5185(m) <1 | Cadmium p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Barium ppm ASTM D5185(m) <1 | ADDITIVES | | method | limit/base | current | history1 | history2 |
| Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 0 Magnesium ppm ASTM D5185(m) <1 <1 0 0 Calcium ppm ASTM D5185(m) 29 <1 <1 <1 Phosphorus ppm ASTM D5185(m) 165 336 335 Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D518 | Boron p | opm | ASTM D5185(m) | | 13 | 11 | 10 |
| Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 | Barium p | opm | ASTM D5185(m) | | <1 | 0 | <1 |
| Magnesium ppm ASTM D5185(m) <1 <1 0 Calcium ppm ASTM D5185(m) 29 <1 <1 0 Phosphorus ppm ASTM D5185(m) 29 <1 <1 <1 <1 Phosphorus ppm ASTM D5185(m) 165 336 335 Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 <1 0 | Molybdenum p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Calcium ppm ASTM D5185(m) 29 <1 <1 Phosphorus ppm ASTM D5185(m) 165 336 335 Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <11 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 | Manganese p | opm | ASTM D5185(m) | | 0 | 0 | 0 |
| Phosphorus ppm ASTM D5185(m) 165 336 335 Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 | Magnesium p | opm | ASTM D5185(m) | | <1 | <1 | 0 |
| Zinc ppm ASTM D5185(m) 9 2 1 Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 | Calcium p | opm | ASTM D5185(m) | | 29 | <1 | <1 |
| Sulfur ppm ASTM D5185(m) 11235 7429 7378 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 0 | Phosphorus p | opm | ASTM D5185(m) | | 165 | 336 | 335 |
| Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 | Zinc p | opm | ASTM D5185(m) | | 9 | 2 | 1 |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 | Sulfur p | opm | ASTM D5185(m) | | 11235 | 7429 | 7378 |
| Silicon ppm ASTM D5185(m) >25 3 1 0 Sodium ppm ASTM D5185(m) 1 <1 0 | Lithium p | opm | ASTM D5185(m) | | <1 | <1 | <1 |
| Sodium ppm ASTM D5185(m) 1 <1 0 | CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Sodium ppm ASTM D5185(m) 1 <1 0 | Silicon p | opm | ASTM D5185(m) | >25 | 3 | 1 | 0 |
| | | | . 7 | | 1 | <1 | 0 |
| | | | () | >20 | 0 | <1 | <1 |



OIL ANALYSIS REPORT







Dec21/18

Anr14/1

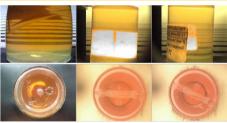
Vov2/19

Aar77/70

Feb20/1

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| FLUID CLEANL | INESS | method | limit/base | current | history1 | history2 |
|----------------------|----------|---------------|------------|-------------------|---------------|----------|
| Particles >4µm | | ASTM D7647 | >5000 | A 26105 | 1 8144 | 3651 |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | ▲ 3453 | 891 |
| Particles >14µm | | ASTM D7647 | >160 | <u> </u> | 84 | 40 |
| Particles >21µm | | ASTM D7647 | >40 | <u> </u> | 23 | 10 |
| Particles >38µm | | ASTM D7647 | >10 | 11 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 4 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | A 22/19/15 | 🔺 21/19/14 | 19/17/12 |
| FLUID DEGRAD | DATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.9 | 0.46 | 0.53 | 0.48 |
| 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 | VLITE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 149 | 145 | 145 | 150 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.5 | 14.3 | 14.1 | 14.4 |
| Viscosity Index (VI) | Scale | ASTM D2270* | | 95 | 93 | 93 |
| SAMPLE IMAG | iES | method | limit/base | current | history1 | history2 |
| | | | | and and and a | | |



Bottom

Color

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Laboratory CALA Sample No. : PC0076466 Received : 27 Nov 2023 Lab Number : 02599116 Diagnosed : 28 Nov 2023 ISO 17025:2017 Accredited Laboratory Unique Number : 5684196 Diagnostician : Kevin Marson Test Package : MAR 2 (Additional Tests: KV100, PQ, PrtCount, TAN Man, VI) 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.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John`s, NL CA A1C 1B6 Contact: Josh Hynes joshynes@suncor.com T: (709)778-3575 F: (709)724-2835