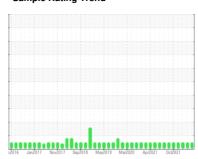


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **3629C** Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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.

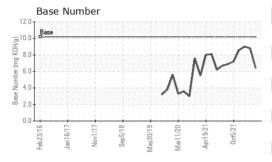
| SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info GFL0086423 GFL0040224 GFL0040202 Sample Date Client Info 05 Jul 2023 06 Mar 2022 30 Nov 2021 Machine Age hrs Client Info 654 0 232 Oil Age hrs Client Info Changed N/A Not Changd Oil Changed Client Info Changed N/A Not Changd Sample Status NORMAL NORMAL NORMAL NORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >50 11 <1 16 Chromium ppm ASTM D5185m >4 1 1 4 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >9 2 2 1 Lead ppm <th>Sample Number Sample Date Machine Age hrs Oil Age hrs Oil Changed Sample Status WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp</th> <th>Clie Clie S Clie S Clie S Clie Clie MM ASTI MM ASTI</th> <th>ent Info ent Info ent</th> <th>limit/base >50 >4 >2 >3 >9 >30 >35</th> <th>GFL0086423 05 Jul 2023 35875 654 Changed NORMAL</th> <th>GFL0040224 06 Mar 2022 35875 0 N/A NORMAL history1 <1 1 0 0 2 <1 <1 0 0 0</th> <th>GFL0040202 30 Nov 2021 0 232 Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0</th> | Sample Number Sample Date Machine Age hrs Oil Age hrs Oil Changed Sample Status WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | Clie Clie S Clie S Clie S Clie Clie MM ASTI | ent Info ent | limit/base >50 >4 >2 >3 >9 >30 >35 | GFL0086423 05 Jul 2023 35875 654 Changed NORMAL | GFL0040224 06 Mar 2022 35875 0 N/A NORMAL history1 <1 1 0 0 2 <1 <1 0 0 0 | GFL0040202 30 Nov 2021 0 232 Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
|---|--|---|---|---|---|--|---|
| Sample Date Client Info 05 Jul 2023 06 Mar 2022 30 Nov 2021 | Sample Date Machine Age Oil Age Oil Changed Sample Status WEAR METALS Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium Cadmium Pp Barium Molybdenum Manganese Magnesium Prid Nrs Machine Machi | Clies | ent Info ent Info ent Info ent Info ent Info ent Info M D5185m M D5185m | >50 >4 >2 >3 >9 >30 >35 | 05 Jul 2023 35875 654 Changed NORMAL current 11 1 0 0 0 2 0 0 0 2 0 | 06 Mar 2022 35875 0 N/A NORMAL history1 <1 1 0 0 0 2 <1 <1 0 | 30 Nov 2021 0 232 Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
| Machine Age hrs Client Info 35875 35875 0 Oil Age hrs Client Info 654 0 232 Oil Changed Client Info Changed N/A Not Changed Sample Status NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 <1 | Machine Age hrs Oil Age Oil Changed Sample Status WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | m ASTI | ent Info ent Info ent Info ent Info ent Info ethod M D5185m M D5185m | >50 >4 >2 >3 >9 >30 >35 | 35875 654 Changed NORMAL current 11 1 0 0 0 2 0 0 0 | 35875 0 N/A NORMAL history1 <1 1 0 0 0 2 <1 <1 0 0 | 0 232 Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
| Oil Age hrs Client Info 654 0 232 Oil Changed Client Info Changed N/A Not Changed Sample Status Client Info Changed N/A NoRMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 <1 | Oil Age | om ASTI | ethod M D5185m | >50 >4 >2 >3 >9 >30 >35 | 654 Changed NORMAL current 11 1 0 0 0 2 0 0 0 0 | 0 N/A NORMAL history1 <1 1 0 0 0 2 <1 <1 <1 0 0 0 | 232 Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
| Oil Changed Sample Status Client Info Changed NORMAL N/A Not Changd NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 <1 16 Chromium ppm ASTM D5185m >4 1 1 4 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 2 1 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >30 0 <1 2 Tin ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m 0 0 0 < | Oil Changed Sample Status WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | Clie m ASTI | ethod M D5185m | >50 >4 >2 >3 >9 >30 >35 | Changed NORMAL current 11 1 0 0 2 0 0 0 | N/A NORMAL history1 <1 1 0 0 2 <1 <1 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Not Changd NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
| Sample Status | Sample Status WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | m ASTI om ASTI | ethod M D5185m | >50 >4 >2 >3 >9 >30 >35 | NORMAL current 11 1 0 0 0 2 0 0 0 | NORMAL history1 <1 1 0 0 0 2 <1 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | NORMAL history2 16 4 0 <1 0 1 <1 2 <1 0 |
| WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 11 <1 16 Chromium ppm ASTM D5185m >4 1 1 4 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 2 1 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m >4 0 <1 2 Tin ppm ASTM D5185m 0 <0 <1 Antimony ppm ASTM D5185m 0 0 0 <0 Vanadium ppm ASTM D5185m 0 0 0 0 | WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m | >50 >4 >2 >3 >9 >30 >35 | current 11 1 0 0 0 2 0 0 0 | history1 <1 1 0 0 0 2 <1 <1 0 0 0 0 | history2 16 4 0 <1 0 1 <1 2 <1 0 |
| Iron | Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m | >50 >4 >2 >3 >9 >30 >35 | 11 1 0 0 0 0 2 0 0 0 0 | <1 1 0 0 0 0 2 <1 <1 0 0 0 | 16 4 0 <1 0 1 <1 2 <1 |
| Chromium ppm ASTM D5185m >4 1 1 4 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 50 22 43 8 | Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m | >4 >2 >3 >9 >30 >35 | 1 0 0 0 2 0 0 0 | 1 0 0 0 2 <1 <1 0 | 4 0 <1 0 1 <1 2 <1 |
| Nickel | Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m M D5185m M D5185m M D5185m M D5185m M D5185m M D5185m M D5185m | >2 >3 >9 >30 >35 | 0 0 0 2 0 0 0 | 0 0 0 2 <1 <1 0 | 0 <1 0 1 <1 2 <1 0 |
| Titanium ppm ASTM D5185m 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 2 1 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m >4 0 0 <1 Antimony ppm ASTM D5185m 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 0 0 0 ADDITIVES method limit/base current history1 history2 | Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m | >3 >9 >30 >35 | 0 0 2 0 0 0 | 0 0 2 <1 <1 0 | <1 0 1 <1 2 <1 0 |
| Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 2 1 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 50 51 54 <th< td=""><th>Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp</th><td>om ASTI om ASTI om ASTI om ASTI om ASTI</td><td>M D5185m M D5185m</td><td>>9 >30 >35</td><th>0 2 0 0 0</th><td>0 2 <1 <1 0</td><td>0 1 <1 2 <1 0</td></th<> | Silver pp Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI om ASTI om ASTI om ASTI om ASTI | M D5185m | >9 >30 >35 | 0 2 0 0 0 | 0 2 <1 <1 0 | 0 1 <1 2 <1 0 |
| Aluminum ppm ASTM D5185m >9 2 2 1 Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m >4 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 50 51 54 54 Magnesium ppm ASTM D5185m 560 624 614 | Aluminum pp Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI om ASTI om ASTI om ASTI | M D5185m M D5185m M D5185m M D5185m M D5185m M D5185m | >9 >30 >35 | 2 0 0 0 0 | 2 <1 <1 0 | 1 <1 2 <1 0 |
| Lead ppm ASTM D5185m >30 0 <1 <1 Copper ppm ASTM D5185m >35 0 <1 2 Tin ppm ASTM D5185m >4 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 50 51 54 54 Magnesium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 780 775 835 925 | Lead pp Copper pp Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI om ASTI om ASTI om ASTI | M D5185m M D5185m M D5185m M D5185m M D5185m | >30 >35 | 0 0 0 | <1 <1 0 | <1 2 <1 0 |
| Copper ppm ASTM D5185m >35 0 <1 | Copper Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI om ASTI om ASTI | M D5185m M D5185m M D5185m M D5185m | >35 | 0 0 0 | <1 0 0 | 2 <1 0 |
| Tin ppm ASTM D5185m >4 0 0 <1 | Tin pp Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m M D5185m | | 0 0 | 0 | <1 0 |
| Antimony ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 | Antimony pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | om ASTI | M D5185m M D5185m | >4 | 0 | 0 | 0 |
| Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 50 624 614 828 Calcium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m >2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 | Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | m ASTI | M D5185m | | 0 | | |
| Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m >20 <1 | Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | | | | | 0 | 0 |
| ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 0 0 <1 | ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | m ASTI | M D5185m | | ^ | | |
| Boron ppm ASTM D5185m 50 22 43 8 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 0 0 <1 | Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | | | | U | 0 | 0 |
| Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m >20 <1 1 <1 | Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp | m | ethod | limit/base | current | history1 | history2 |
| Molybdenum ppm ASTM D5185m 50 51 54 54 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m >20 <1 1 <1 Potassium ppm ASTM D5185m >20 <1 1 <1 | Molybdenum pp Manganese pp Magnesium pp Calcium pp | m ASTI | M D5185m | 50 | 22 | 43 | 8 |
| Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m >20 <1 | ManganeseppMagnesiumppCalciumpp | m ASTI | M D5185m | 5 | 0 | 0 | 0 |
| Magnesium ppm ASTM D5185m 560 624 614 828 Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 1 <1 | Magnesium pp Calcium pp | m ASTI | M D5185m | 50 | 51 | 54 | 54 |
| Calcium ppm ASTM D5185m 1510 1407 1558 1072 Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 | Calcium pp | m ASTI | M D5185m | 0 | 0 | <1 | <1 |
| Phosphorus ppm ASTM D5185m 780 775 835 925 Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 | | m ASTI | M D5185m | 560 | 624 | 614 | 828 |
| Zinc ppm ASTM D5185m 870 945 1022 1104 Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 | Phoenhorus no | m ASTI | M D5185m | 1510 | 1407 | 1558 | 1072 |
| Sulfur ppm ASTM D5185m 2040 2868 2441 2545 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 1 <1 | i ilospilorus pp | m ASTI | M D5185m | 780 | 775 | 835 | 925 |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 1 <1 | | m ASTI | M D5185m | 870 | 945 | 1022 | 1104 |
| Silicon ppm ASTM D5185m >+100 4 4 7 Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 | Sulfur pp | om ASTI | M D5185m | 2040 | 2868 | 2441 | 2545 |
| Sodium ppm ASTM D5185m 3 6 7 Potassium ppm ASTM D5185m >20 <1 1 <1 | CONTAMINANTS | m | ethod | limit/base | current | history1 | history2 |
| Potassium ppm ASTM D5185m >20 <1 1 <1 | Silicon pp | m ASTI | M D5185m | >+100 | 4 | 4 | 7 |
| | Sodium pp | m ASTI | M D5185m | | 3 | 6 | 7 |
| | Potassium pp | m ASTI | M D5185m | >20 | <1 | 1 | <1 |
| INFRA-RED method limit/base current history1 history2 | INFRA-RED | m | ethod | limit/base | current | history1 | history2 |
| Soot % | Soot % % | *AS | TM D7844 | | 0.1 | 0 | 0.1 |
| Nitration Abs/cm *ASTM D7624 >20 7.9 7.3 6 | Nitration Ab | s/cm *AS | TM D7624 | >20 | 7.9 | 7.3 | 6 |
| Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.9 17.6 | Sulfation Abs | /.1mm *AS | TM D7415 | >30 | 19.2 | 19.9 | 17.6 |
| | FLUID DEGRADAT | | | limit/base | current | history1 | history2 |
| FLUID DEGRADATION method limit/base current history1 history2 | Oxidation Abs | ION m | ethod | mini bacc | | | |

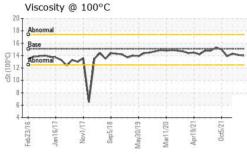
6.4

Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT

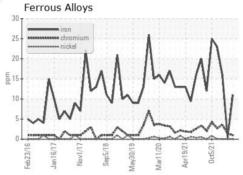


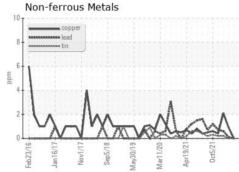


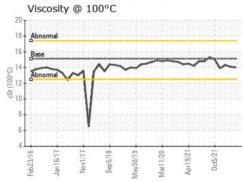
| VISUAL | | method | | | | history2 |
|-------------------------|--------|---------|-------|-------|-------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | 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 |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

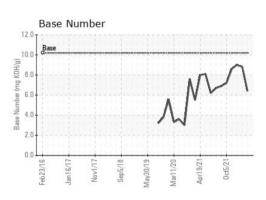
| FLUID PROPE | ERTIES | method | | | | history2 |
|--------------|--------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.0 | 14.1 | 14.3 |

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0086423 : 05895957 Unique Number : 10551767 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2023 Diagnosed : 12 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG) 2810 Contentnea Road S

Wilson, NC US 27893-8501 Contact: SPENCER LIGGON

spencer.liggon@gflenv.com T: (800)207-6618

* - 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)