

OIL ANALYSIS REPORT

Area Speedway [Speedway] Oil - Forward Genset

Forward Genset

MOBIL 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (**Customer Sample Comment:** Top Up Amount: 1 GAL Top Up Amount: 1 GAL)

Wear

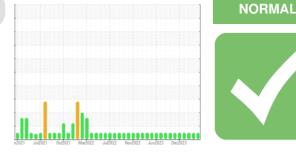
All component wear rates are normal.

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 Rating Trend

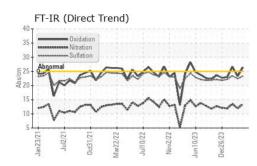


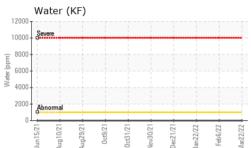
SAMPLE INFORMATION method WC0860108 WC0860040 WC0860046 Sample Number **Client Info** 05 Apr 2024 21 Feb 2024 Sample Date Client Info 20 Mar 2024 12095 Machine Age hrs **Client Info** 11734 11585 Oil Age hrs Client Info 12018 11657 11508 Oil Changed **Client Info** Oil Added Oil Added N/A NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >4.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 24 Iron ASTM D5185m >50 29 31 ppm Chromium ASTM D5185m >4 ppm <1 <1 <1 Nickel ASTM D5185m >2 0 0 0 ppm 0 0 0 ASTM D5185m Titanium ppm Silver ppm ASTM D5185m >5 0 0 0 Aluminum ASTM D5185m >12 2 2 ppm 1 Lead ASTM D5185m >17 0 0 0 ppm 0 Copper ppm ASTM D5185m >70 0 <1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium 0 0 ASTM D5185m 0 ppm Cadmium ppm ASTM D5185m 0 0 0 10 8 ASTM D5185m 8 Boron ppm Barium ppm ASTM D5185m 0 0 0 Molybdenum ASTM D5185m 69 68 68 ppm Manganese ppm ASTM D5185m <1 <1 <1 1529 1506 Magnesium ppm ASTM D5185m 1538 Calcium ppm ASTM D5185m 1180 1163 1241 Phosphorus ppm ASTM D5185m 1117 1106 1048 Zinc ppm ASTM D5185m 1383 1360 1332 Sulfur 3822 3280 ppm ASTM D5185m 3767 CONTAMINANTS Silicon ppm ASTM D5185m >25 6 6 6 Sodium ppm ASTM D5185m >118 12 10 14 Potassium ASTM D5185m >20 0 <1 1 ppm Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED % *ASTM D7844 0.2 0.2 0.2 Soot % Abs/cm *ASTM D7624 >20 13.5 Nitration 11.9 13.5

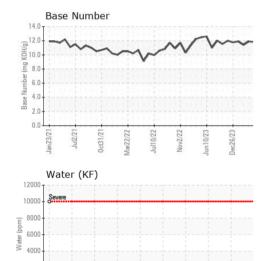
| STM D7415 >30 | 23.3 | 22.4 | 23.4 |
|-------------------|-------------------|--|---|
| nethod limit/base | current | history1 | history2 |
| STM D7414 >25 | 26.4 | 23.3 | 26.6 |
| TM D2896 | 11.81 | 11.88 | 11.39 |
| | nethod limit/base | nethod limit/base current ITM D7414 >25 26.4 | nethod limit/base current history1 TM D7414 >25 26.4 23.3 |



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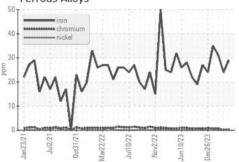
200

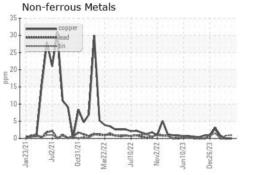
Ab

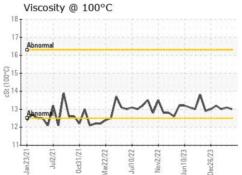
Aug 10/21 Aug 29/21

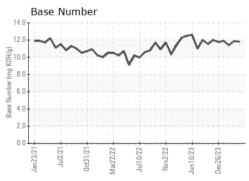
| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *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 PROPER | TIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | | 13.0 | 13.1 | 13.0 |
| GRAPHS | | | | | | |

Ferrous Alloys









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 MARATHON PETROLEUM CO. : WC0860108 Sample No. Received : 23 Apr 2024 101 12TH ST Lab Number : 06157889 Tested : 25 Apr 2024 CATLETTSBURG, KY Unique Number : 10993312 Diagnosed : 25 Apr 2024 - Sean Felton US 41169 Test Package : IND 2 (Additional Tests: KF) Contact: CORY GUMBERT Certificate 12367 cagumbert@marathonpetroleum.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (606)585-3950 * - 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) F: x:

Report Id: MARCAT [WUSCAR] 06157889 (Generated: 04/25/2024 20:16:32) Rev: 1

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Submitted By: M/V SPEEDWAY

Page 2 of 2