

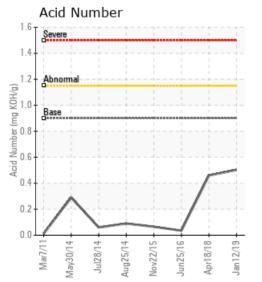
GFPT-FURTHER#1#2

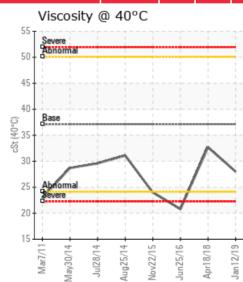
| Customer: PTRHTF60010 | System Information | Sample Information |
|---------------------------------|---|-------------------------|
| SYNLUBE INTERNATIONAL CO LTD | System Volume: 7000 ltr | Lab No: 02271407 |
| 76/1 MOO.7 THACHIN | Bulk Operating Temp: 554F / 290C | Analyst: Yutong Gao |
| MUANG SAMUTSAKHON, 74000 | Heating Source: | Sample Date: 01/12/19 |
| THAILAND | Blanket: | Received Date: 03/05/19 |
| Attn: CHERNPORN CHOBKUI | Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID | Completed: 03/06/19 |
| Tel: 034421290 | Make: WANSON | |
| E-Mail: chernporn@synlube.co.th | | |

Recommendation: The current fluid has normal viscosity and distillation point. The acid number, solid content and the contaminants are all low. The flash point is lower than the fresh oil, but still acceptable. Please continue to run the oil and take one sample in 12 months to monitor the conditions.

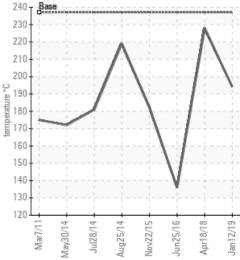
Comments:

| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|-------------|---------------|-----------|-----------------|-------------------|------------|------------------|--------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/ g | %wt | °F/°C | °F/°C | °F/°C | % |
| 01/12/19 | 03/05/19 | 24m | SUPPLY RETURN | 381 / 194 | 4.9 | 28.0 | 0.502 | 0.087 | 678 / 359 | 792 / 422 | 878 / 470 | 5.15 |
| 04/18/18 | 06/12/18 | 4m | SUPPLY RETURN | 442 / 228 | 3.0 | 32.7 | 0.46 | 0.034 | 708 / 375 | 804 / 429 | 891 / 477 | 2.14 |
| 06/25/16 | 07/11/16 | 5m | | 277 / 136 | 9.6 | 20.8 | 0.035 | 0.087 | 628 / 331 | 795 / 424 | 916 / 491 | 10.04 |
| 11/22/15 | 11/30/15 | 60m | | 360 / 182 | 7.4 | 24.0 | 0.065 | 0.129 | 641 / 338 | 791 / 422 | 900 / 482 | 8.99 |
| 08/25/14 | 08/28/14 | 38m | SUPPLY/RETURN | 426 / 219 | 0.00 | 31.1 | 0.09 | 0.104 | 726 / 385 | 791 / 422 | 880 / 471 | 0.00 |
| 07/28/14 | 08/05/14 | 37m | SUPPLY | 358 / 181 | 15.0 | 29.6 | 0.06 | 0.039 | 687 / 364 | 802 / 428 | 902 / 484 | 4.42 |
| | | Baseline | Data | 459 / 237 | | 37.12 | 0.90 | | 721 / 383 | 807 / 431 | 892 / 478 | 1.5 |



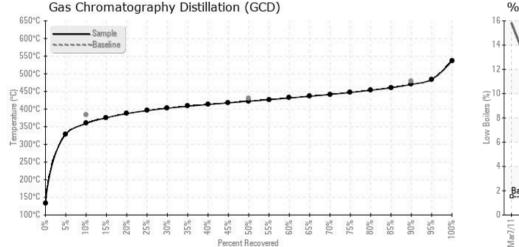




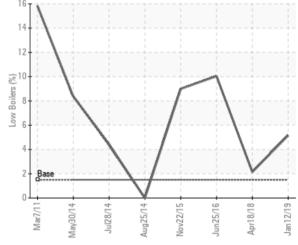




Elemental anaysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



% Boiling < 335°C



Historical Comments

| 04/18/18 | The fluid has adequate viscosity, flash point, distillation points. The acid number and solid content are all low. The oil is suitable for use, please take one sample in 12 months to monitor the fluid conditions. |
|----------|--|
| 06/25/16 | (GCD) % < 335°C is abnormally high. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. The current fluid has been thermal cracked. The high content of light boiler causes the low flash point. The system venting is required as soon as possible, otherwise the partial oil change is recommended. Please confirm the oil working hours to assist the oil analysis data interpretation. |
| 11/22/15 | The fluid experieced moderate thermal cracking, there are some light end of the fluid accumulated in the system. GCD%<335C data reading is high, the flash point is low. Please do the effective system venting as soon as possible. Please take one sample in 6~8 months to monitor the conditions. (GCD) 10% Distillation Point is low. (GCD) % < 335°C is marginally high. |
| 08/25/14 | The current fluid is in good conditions. Especially, the flash point has increased a lot comparing with the last two samples. Please take one sample in 3 months to monitor. (GCD) 90% Distillation Point is lower than the new fluid. |
| 07/28/14 | The current fluid has great improvement after the effective venting process (410 liters top up for the past 3 months). The fluid top up rate will be reduced in the future once the light end fluid has been bleed off. All of the properties return to the normal range. However, the S level seems high, please investigate the third party contamination.Keep on doing the current venting process, and take one sample in one month to monitor the condition and decide if the venting time can be cut back. |

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