

Machine Id **13516** Component **Gasoline Engine** Filuid **GASOLINE ENGINE OIL SAE 5W30 (--- QTS)**

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--|--|--|---|---|---|
| Sample Number | | Client Info | | WC0857124 | WC0913642 | |
| Sample Date | | Client Info | | 03 Jul 2024 | 19 Mar 2024 | |
| Machine Age | mls | Client Info | | 10915 | 6089 | |
| Oil Age | mls | Client Info | | 5000 | 0 | |
| Filter Age | mls | Client Info | | 5000 | 0 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Filter Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | NORMAL | ABNORMAL | |
| Iron | nnm | ΔSTM D5185m | <150 | 21 | 61 | |
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| | | | | | | |
| | | | >0 | | | |
| | | | ~2 | | | |
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| | | | | | | |
| | | | >10 | | | |
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| | | | | | | |
| Yellow Ivietal | scalar | visual | NONE | NONE | NONE | |
| Silicon | ppm | ASTM D5185m | >30 | 29 | 4 90 | |
| Potassium | ppm | ASTM D5185m | >20 | 7 | 11 | |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| Soot % | % | *ASTM D7844 | | 0 | 0 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.7 | 11.9 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.3 | 21.1 | |
| Silt | scalar | *Visual | NONE | NONE | NONE | |
| Debris | scalar | *Visual | NONE | NONE | NONE | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| Appearance | scalar | *Visual | NORML | NORML | NORML | |
| Odor | scalar | *Visual | NORML | NORML | NORML | |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
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| | | | 100 | | | |
| - | | | 10 | | | |
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| Sultur | ppm | ASTM D5185m | 2500 | 2523 | 1744 | |
| | Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor | Sample NumberSample DateMachine AgeMachine AgeMachine AgeMachine AgeMachine AgeSill ChangedFilter AgeOil ChangedFilter ChangedSample StatusIronppmChromiumppmChromiumppmSilverppmAluminumppmLeadppmCopperppmVanadiumppmVanadiumppmVaterGlycolSoot %%NitrationAbs/nmSiltscalarSulfationAbs/andSulfationAbs/andSulfationAbs/andSiltscalarSand/DirtscalarAppearancescalarManganeseppmMagnesiumppmPhosphorusppmZincppm | Sample NumberClient InfoSample DateClient InfoMachine AgemlsClient InfoOil AgemlsClient InfoFilter AgemlsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSilverIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodSiliconppmASTM D5185mFuelWC MethodSoot %%*ASTM D5185mFuelWC MethodSiltscalar*VisualSiltscalar*VisualSiltscalar*VisualSoot %%*ASTM D7844NitrationAbs/:1mm*ASTM D7844NitrationAbs/:1mm*ASTM D7845SodiumppmASTM D5185mBoronppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185mPhosphorusppmASTM D5185mZincppmASTM D5185m | Sample NumberClient InfoSample DateClient InfoMachine AgemlsClient InfoOil AgemlsClient InfoFilter AgemlsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mCopperppmASTM D5185mTinppmASTM D5185mVanadiumppmASTM D5185mYellow Metalscalar*VisualVolte Metalscalar*VisualSiliconppmASTM D5185mYellow Metalscalar*VisualSiliconppmASTM 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D7185>3023.3Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNONENONE</th><th>Sample NumberClient InfoWC0913642Sample DateClient Info03 Jul 202419 Mar 2024Machine AgemlsClient Info109156089Oil AgemlsClient Info50000Oil ChangedClient Info500000Oil ChangedClient InfoChangedChangedChangedFilter ChangedClient InfoChangedChangedChangedSample StatusClient InfoChangedChangedChangedIronppmASTM D5185m>102161ChromiumppmASTM D5185m>2<11TitaniumppmASTM D5185m>2<1<1SilverppmASTM D5185m>2<1<1SilverppmASTM D5185m>51550TinppmASTM D5185m>151550TinppmASTM D5185m>1023VanadiumppmASTM D5185m>302990PotassiumppmASTM D5185m>30711FuelWC Method>.0.2NONENONESiliconppmASTM D5185m>302990PotassiumppmASTM D5185m>3023.321.1SulfationAbs/cm'NoreNONENONESoliconppmASTM D5185m>3023.321.1SulfationAbs/cm'NoreNONENONE<tr< th=""></tr<></th></tr<> | Sample NumberClient InfoWC0857124Sample DateClient Info03 Jul 2024Machine AgemlsClient Info10915Oil AgemlsClient Info5000Filter AgemlsClient 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Oxidation

Visc @ 100°C cSt

16.2

4.5

9.6

19.5

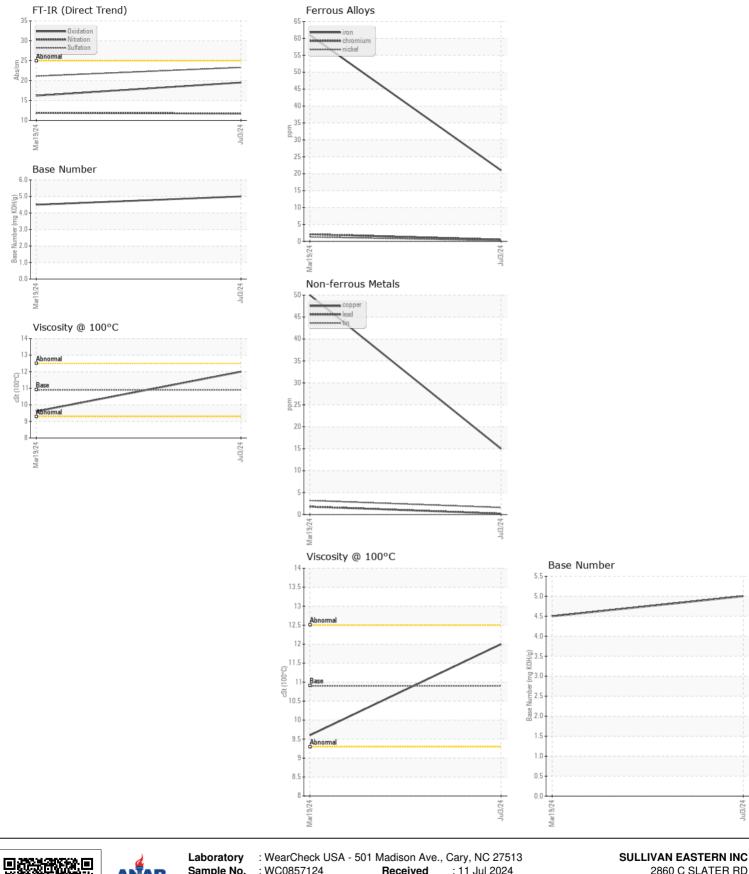
5.0

12.0

Abs/.1mm *ASTM D7414 >25

ASTM D445 10.9

Base Number (BN) mg KOH/g ASTM D2896



Sample No. : WC0857124 Received 2860 C SLATER RD : 11 Jul 2024 Lab Number : 06233029 Tested MORRISVILLE, NC : 11 Jul 2024 Unique Number : 11116522 Diagnosed : 11 Jul 2024 - Wes Davis US 27560 Test Package : CONST (Additional Tests: TBN) Contact: SCOTT SULLIVAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ssullivan@sullivaneastern.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)484-8993 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)484-2136

Contact/Location: SCOTT SULLIVAN - MSCDUR Page 2 of 2