

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	
			>0			
			~2			
			>10			
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	
• • •						
			100			
-			10			
-						
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 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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 InfoChangedOil 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Oxidation

Visc @ 100°C cSt

16.2

4.5

9.6

19.5

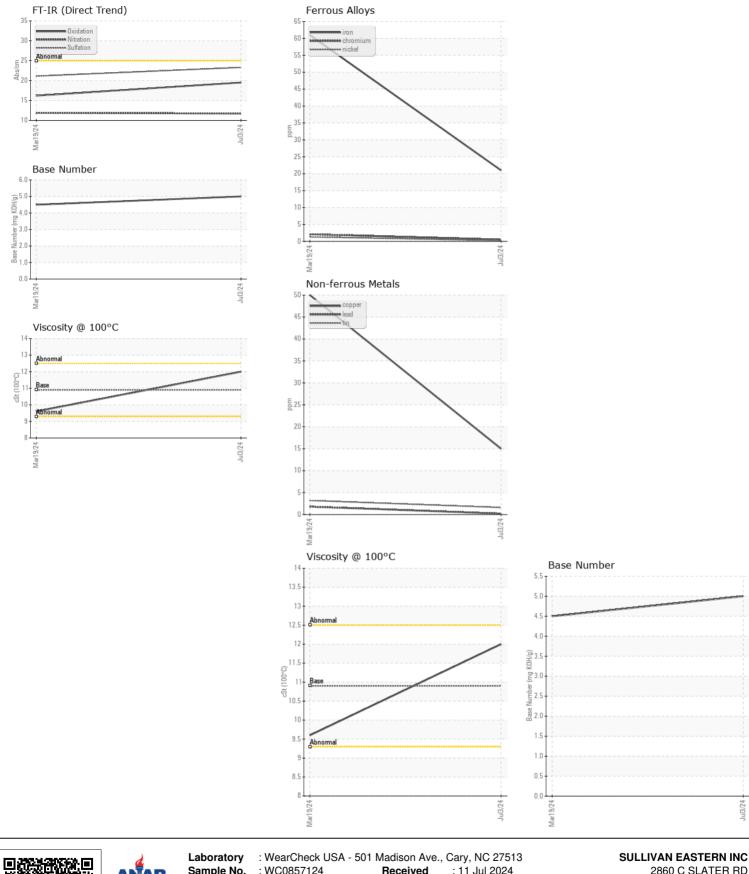
5.0

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