

Machine Id 25173 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0826825	WC0826787	WC0826858
	Sample Date		Client Info		29 Mar 2024	07 Jan 2024	17 Sep 2023
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Machine Age	mls	Client Info		144661	120188	92046
brand, type, and viscosity of the off off your next sample.	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		11	18	18
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	2
Al component wear fates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	2	4
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	1	4	10
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0''''''''''''''''''''''''''''''''''''''			05	40	0	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	9	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	3	9
····	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.8	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.9	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		24.2	20.6	21.7
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<158 <	2	<1	<1
	Boron	ppm	ASTM D5185m		214	5	2
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		125	53	63
	Manganese	ppm	ASTM D5185m	100	0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	722	921	1048
	Calcium	ppm	ASTM D5185m		1511	1114	1144
	Phosphorus	ppm	ASTM D5185m		760	947	1088
	Zinc	ppm	ASTM D5185m		919	1243	1389
	Sulfur	ppm	ASTM D5185m		2526	2919	3165
	Sullui	ppm	AGTIVED0100III	4230	2520	2313	5105

Oxidation

Visc @ 100°C cSt

15.7

8.3

12.7

16.9

8.1

13.4

18.0

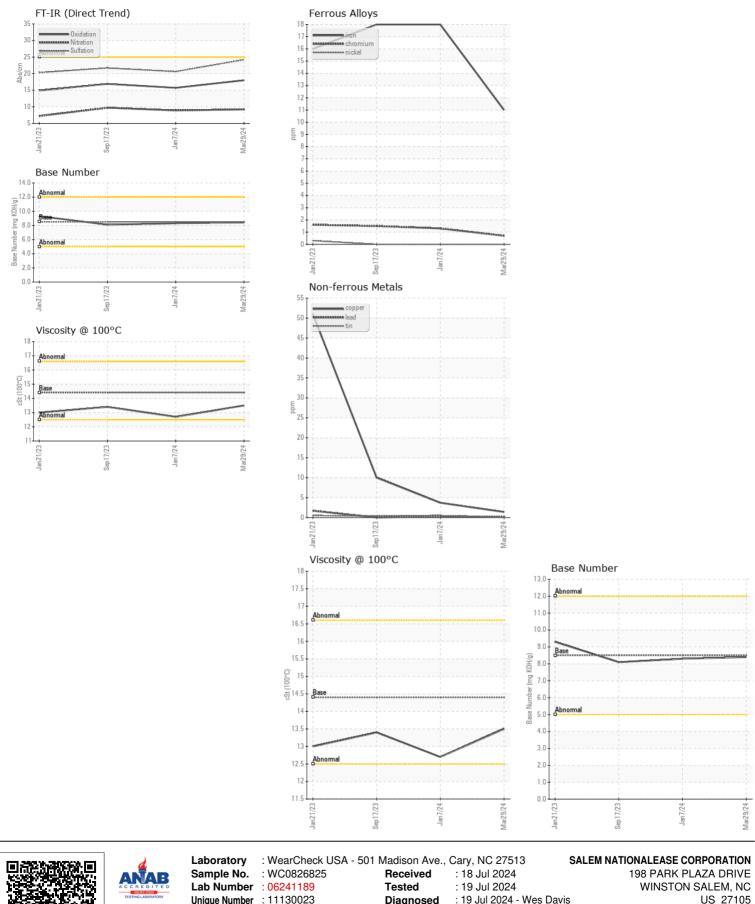
8.4

13.5

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5



Diagnosed Unique Number : 11130023 : 19 Jul 2024 - Wes Davis Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com * - 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)

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