

Machine Id 98149 Component Diesel Engine Fluid CHEVRON 15W40 (--- QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0913551	WC0846302	WC0786371
component make and model with your next sample.	Sample Date		Client Info		11 Jul 2024	04 Dec 2023	30 Jun 2023
component mate and model manyour next cample.	Machine Age	hrs	Client Info		630	479	305
	Oil Age	hrs	Client Info		200	250	250
	Filter Age	hrs	Client Info		200	250	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	21	13
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	5	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	1	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >25					0	4.4	1.4
CONTAMINATION	Potassium	ppm	ASTM D5185m		8 2	14 2	14 2
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		2 <1.0	<1.0	1.5
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	4.9	5.4	4.6
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.7	18.9
	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
	Cadiwa				•••••		0
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>50	0 448	2 390	3 420
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm ppm	ASTM D5185m		87	79	78
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		379	329	352
	Calcium	ppm	ASTM D5185m		1352	1210	1457
	Phosphorus	ppm	ASTM D5185m		977	927	964
	Zinc	ppm	ASTM D5185m		1144	1105	1160
	Sulfur	ppm	ASTM D5185m		3097	3367	4756
	Oxidation		*ASTM D3185111	>25	12.7	12.9	13.5
	Oxidation	MD9/.1111111	A311VI D7414	>20	12.1	12.3	10.0

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt

ASTM D445 14.4

7.1

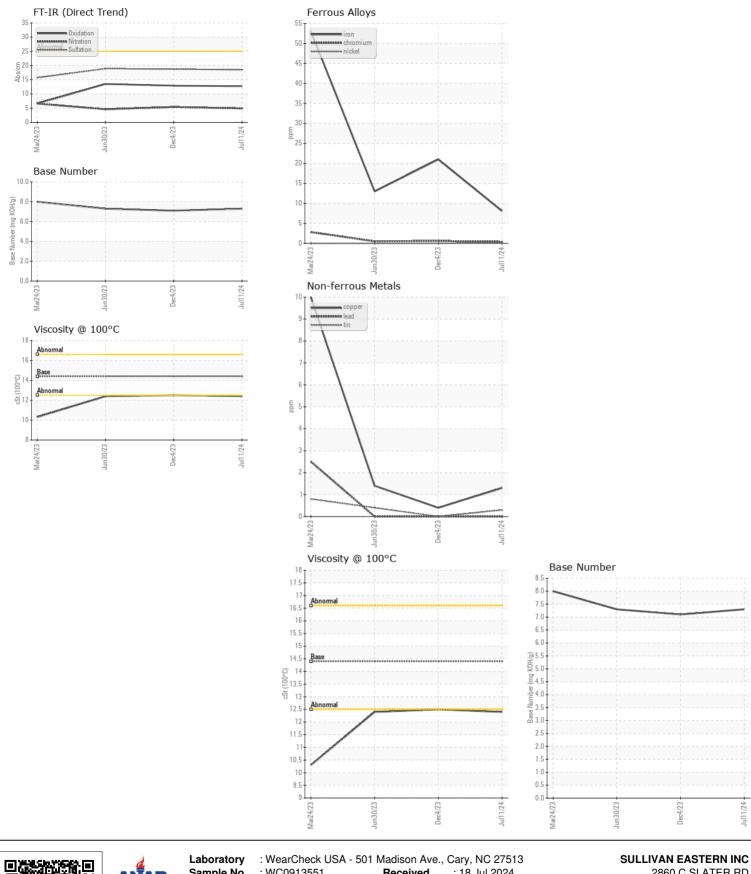
12.5

7.3

12.4

7.3

12.4



Sample No. : WC0913551 Received 2860 C SLATER RD : 18 Jul 2024 ø Lab Number : 06239872 Tested MORRISVILLE, NC : 18 Jul 2024 Unique Number : 11128706 Diagnosed : 18 Jul 2024 - Wes Davis US 27560 Test Package : CONST (Additional Tests: TBN) Contact: SCOTT SULLIVAN Certificate L2367 ssullivan@sullivaneastern.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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