

Machine Id SAKAI 54271 Component Diesel Engine Fluid CHEVRON 15W40 (12 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0924427	WC0786216	WC0595691
	Sample Date		Client Info		24 May 2024	08 Mar 2023	29 Jul 2021
	Machine Age	hrs	Client Info		1769	1528	1263
	Oil Age	hrs	Client Info		250	1500	250
	Filter Age	hrs	Client Info		250	1500	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	30	41	42
	Chromium	ppm	ASTM D5185m	>20	<1	1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	4	6
	Lead	ppm	ASTM D5185m		<1	0	3
	Copper	ppm	ASTM D5185m	>330	1	4	2
	Tin	ppm		>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	8	13	22
OONTAMINATION	Potassium	ppm	ASTM D5185m		2	0	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.5	9
	Sulfation	Abs/.1mm	*ASTM D7415		21.4	23.5	22.7
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	4	3	4
	Boron	ppm	ASTM D5185m		267	243	311
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	ASTM D5185m		83	93	129
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m		405	559	636
	Calcium	ppm	ASTM D5185m		1481	1503	1551
	Phosphorus	ppm	ASTM D5185m		961	949	794
	Zinc	ppm	ASTM D5185m		1172	1201	884
	Sulfur	ppm	ASTM D5185m		3289	3013	2378
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	19.3	20
	Base Number (BN)		ASTM D2896		6.7	7.3	
		- 01		44.4	10.0	10.0	10.0

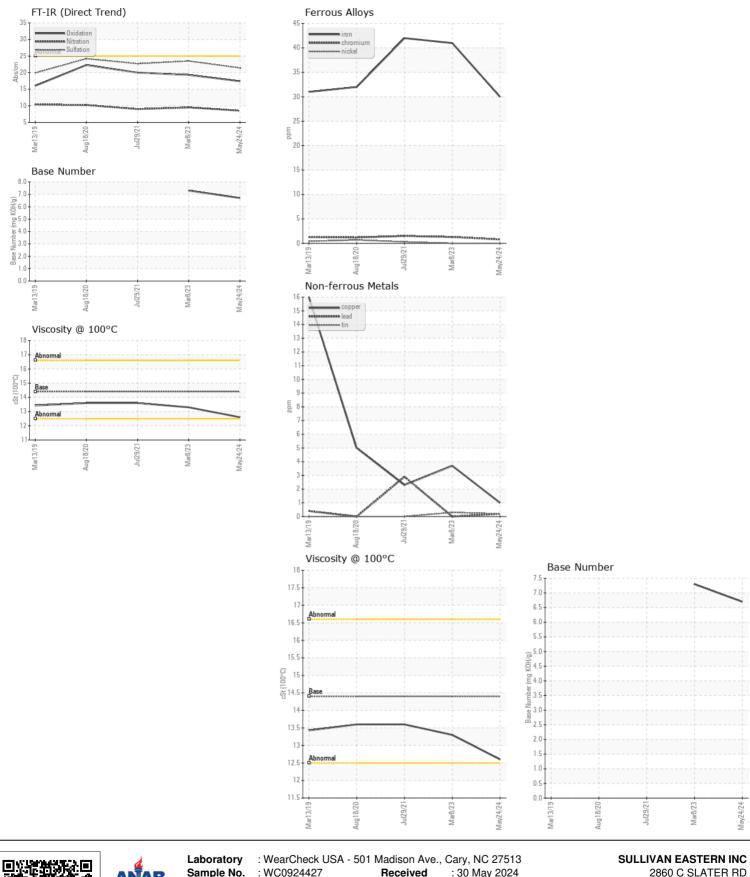
Visc @ 100°C cSt

ASTM D445 14.4

13.3

13.6

12.6



Sample No. : WC0924427 Received 2860 C SLATER RD : 30 May 2024 Lab Number : 06196151 Tested MORRISVILLE, NC : 31 May 2024 Unique Number : 11058274 Diagnosed : 31 May 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