

Machine Id **1425** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 5W30 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0827663		
	Sample Date		Client Info		28 Jun 2024		
	Machine Age	mls	Client Info		102240		
	Oil Age	mls	Client Info		6448		
	Filter Age	mls	Client Info		6448		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
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WEAR	Iron	ppm	ASTM D5185m	>100	9		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	16		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624		9.3		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7		
	Boron	ppm	ASTM D5185m	250	51		
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		
	Molybdenum	ppm	ASTM D5185m		70		
	Manganese	ppm	ASTM D5185m	.00	<1		
	Magnesium	ppm	ASTM D5185m	450	552		
	Calcium	ppm	ASTM D5185m		1238		
	Phosphorus	ppm	ASTM D5185m		709		
	Zinc	ppm	ASTM D5185m		843		
	Sulfur	ppm	ASTM D5185m		3137		
	Outdation		*40714 0744	05	14.0		

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

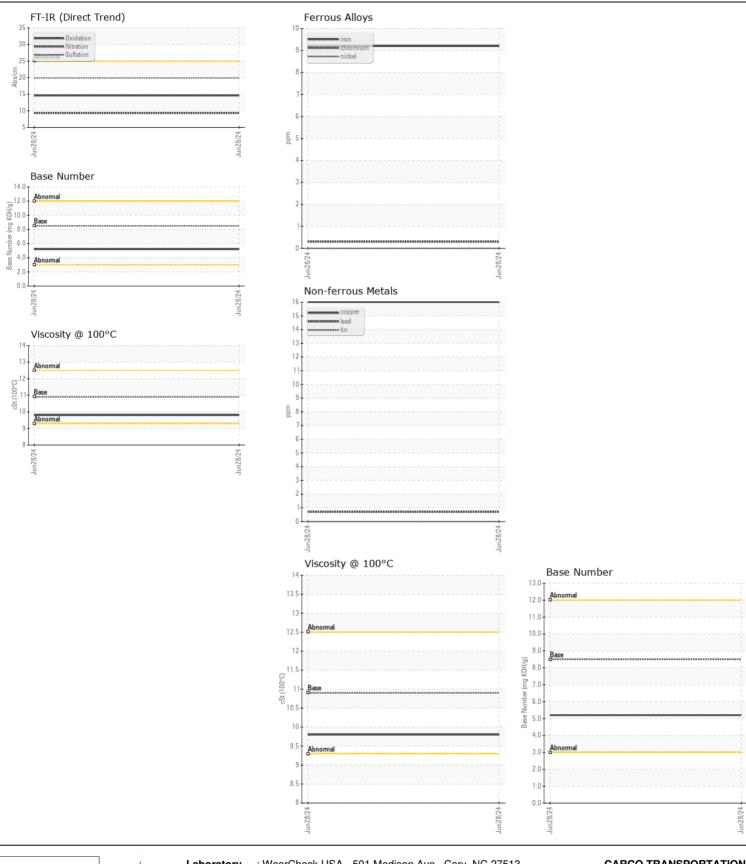
ASTM D445 10.9

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

14.6

5.2

9.8



CARCO TRANSPORTATION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0827663 Received 415 S WESTERN AVENUE : 05 Jul 2024 Lab Number : 06229543 Tested OKLAHOMA CITY, OK : 09 Jul 2024 Diagnosed Unique Number : 11113036 : 09 Jul 2024 - Wes Davis US 73109 Test Package : FLEET Contact: VICTOR STACHONIAK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. victors@carcotrans.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (405)239-2555 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: VICTOR STACHONIAK - CAROKL Page 2 of 2