

Machine Id **2085** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 10W30 (--- 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		WC0926105		
	Sample Date		Client Info		04 May 2024		
	Machine Age	hrs	Client Info		459		
	Oil Age	hrs	Client Info		459		
	Filter Age	hrs	Client Info		459		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	6		
	Chromium	ppm	ASTM D5185m		0		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	~7	0		
	Silver		ASTM D5185m	<u>\</u> 3	0		
	Aluminum	ppm ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		0		
	Tin		ASTM D5185m		ہ <1		
	Vanadium	ppm	ASTM D5185m	>15	0		
	White Metal	ppm	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		scalar	visuai	INOINE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6		
	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	0=0	2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	59		
	Manganese	ppm	ASTM D5185m	450	<1		
	Magnesium	ppm	ASTM D5185m		927		
	Calcium	ppm	ASTM D5185m		1039		
	Phosphorus	ppm	ASTM D5185m		1005		
	Zinc	ppm	ASTM D5185m		1227		
	Sulfur	ppm	ASTM D5185m	4250	3477		
	Ovidation	Abo/ 1mm	******	. OE	454		

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

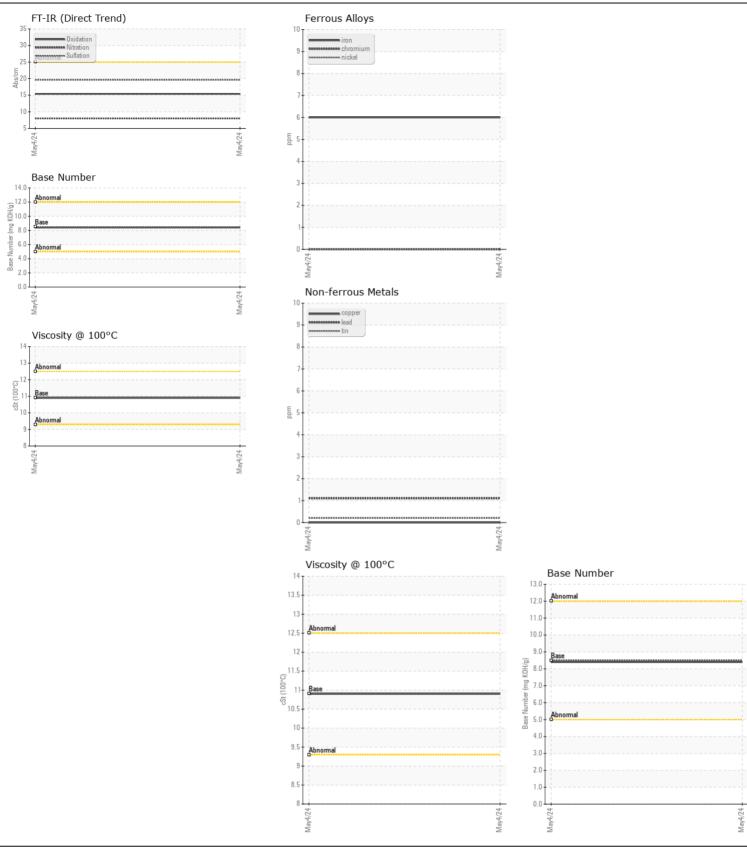
ASTM D445 10.9

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

15.4

8.4

10.9



CARCO TRANSPORTATION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 3403 EAST ROOSEVELT ROAD : WC0926105 : 10 May 2024 Lab Number : 06175287 Tested : 13 May 2024 LITTLE ROCK, AR Diagnosed Unique Number : 11021340 : 13 May 2024 - Wes Davis US 72206 Test Package : FLEET Contact: DENNIS CATES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. denniscates@carcotrans.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)967-0777 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DENNIS CATES - CARLIT Page 2 of 2