

WEAR CONTAMINATION FLUID CONDITION

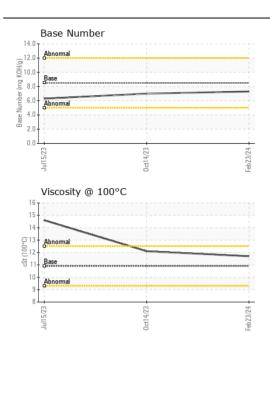
NORMAL NORMAL NORMAL

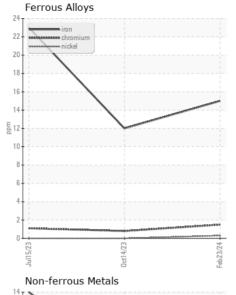
Machine Id

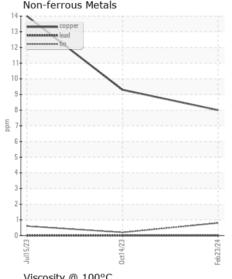
1981

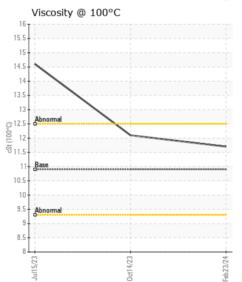
Component Diesel Engine

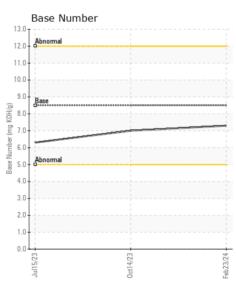
Diesei Engine Fluid DIESEL ENGINE OIL SAE 10W30 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIII/ADII	WC0854004	WC0853984	WC0822907
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		23 Feb 2024	14 Oct 2023	15 Jul 2023
	Machine Age	mls	Client Info		261067	233429	212068
	Oil Age	mls	Client Info		27638	21361	0
	Filter Age	mls	Client Info		27638	21361	0
	Oil Changed	0	Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	12	23
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	8	5	8
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	8	9	14
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	5
	Potassium	ppm	ASTM D5185m	>20	4	9	11
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.7	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.5	9.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.1	22.4
	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		2	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	2	22
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	62	51	64
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		996	728	416
	Calcium	ppm	ASTM D5185m		1231	1326	1897
	Phosphorus	ppm	ASTM D5185m		1146	964	1004
	Zinc	ppm	ASTM D5185m		1366	1225	1309
	Sulfur	ppm	ASTM D5185m		3370	2894	3416
	Oxidation	Abs/.1mm	*ASTM D7414		17.4	15.2	18.9
	Base Number (BN)				7.3	7.0	6.3
	Visc @ 100°C	cSt	ASTM D445	10.9	11.7	12.1	14.6













Certificate L2367

Laboratory

Sample No.

Lab Number : 06121486 Unique Number: 10930319 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0854004

Received **Tested**

: 18 Mar 2024 : 19 Mar 2024 Diagnosed

: 19 Mar 2024 - Wes Davis

CARCO TRANSPORTATION

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR US 72206

Contact: DENNIS CATES denniscates@carcotrans.com T: (800)967-0777

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.

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

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