

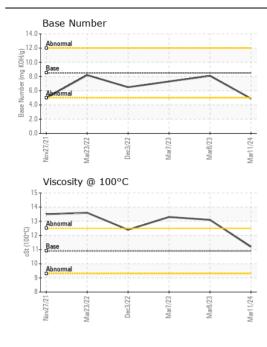
WEAR CONTAMINATION FLUID CONDITION

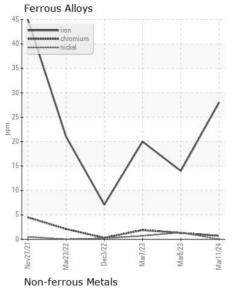
NORMAL NORMAL NORMAL

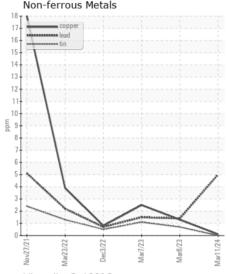
Machine Id **1572** 

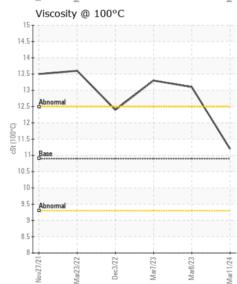
Component Diesel Engine

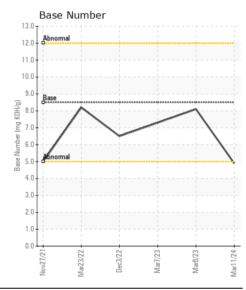
DIESEL ENGINE OIL SAE 10W30 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0886770	WC0762835	WC0762831
	Sample Date		Client Info		11 Mar 2024	08 Mar 2023	07 Mar 2023
	Machine Age	mls	Client Info		221811	3499	69147
	Oil Age	mls	Client Info		31208	3499	25000
	Filter Age	mls	Client Info		31208	3499	25000
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	28	14	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	2
	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	4	8
	Lead	ppm	ASTM D5185m		5	1	2
	Copper	ppm	ASTM D5185m	>330	<1	1	2
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	8
	Potassium	ppm	ASTM D5185m	>20	2	7	19
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	0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	7.5	10.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	20.5	21.1
	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		1	<1	4
	Boron	ppm	ASTM D5185m	250	4	65	33
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	74	54
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		944	444	799
	Calcium	ppm	ASTM D5185m		1169	2030	1425
	Phosphorus	ppm	ASTM D5185m		1022	1123	813
	Zinc	ppm	ASTM D5185m		1224	1391	1029
	Sulfur	ppm	ASTM D5185m		3216	3641	2714
	Oxidation	Abs/.1mm	*ASTM D7414		21.1	16.1	18.9
			A OTH A DOGGO	0 =	4.0	0 4	7.0
	Base Number (BN) Visc @ 100°C	mg KOH/g cSt	ASTM D2896 ASTM D445		4.9 11.2	8.1 13.1	7.3













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0886770 Lab Number : 06122020 Unique Number : 10936171

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 : 19 Mar 2024 **Tested** 

Diagnosed

: 19 Mar 2024 - Wes Davis

**CARCO TRANSPORTATION** 

2801 MIDLAND BLVD. FORT SMITH, AR US 72904

Contact: RON BALL rball@carcotrans.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: (479)441-3228

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

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