WEAR CONTAMINATION FLUID CONDITION

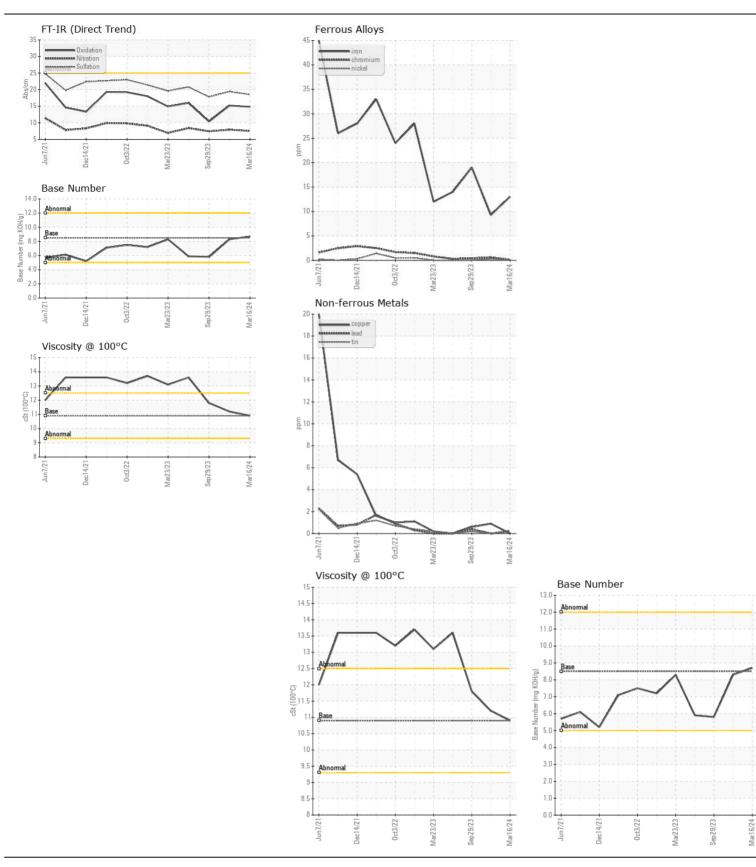
NORMAL NORMAL NORMAL

Machine Id

3808

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		WC0878560		WC0854014
	Sample Date		Client Info		16 Mar 2024	08 Dec 2023	29 Sep 2023
	Machine Age	mls	Client Info		270150	253425	235198
	Oil Age	mls	Client Info		16723	18284	19624
	Filter Age	mls	Client Info		16723	18284	19624
	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	13	9	19
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	2	2
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\25	3	3	5
CONTAININATION	Potassium	ppm	ASTM D5185m		6	1	4
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.9	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.4	17.8
	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		0	3	<1
TEGID GONDITION	Boron	ppm	ASTM D5185m	250	2	2	6
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	<1	0
	Molybdenum	ppm	ASTM D5185m		57	57	15
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	931	876	92
	Calcium	ppm	ASTM D5185m	3000	1056	1132	2087
	Phosphorus	ppm	ASTM D5185m		1030	1058	835
	Zinc	ppm	ASTM D5185m		1204	1246	1060
	Sulfur	ppm	ASTM D5185m	4250	3390	2979	3305
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.2	10.4
	D 11 1 (D11)	ma 1/011/a	ASTM D2896	0.5	0.7	8.3	5.8
	Base Number (BN)	IIIg NOH/g	A3 1 W D2090	0.5	8.7	0.5	5.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06151506 Unique Number: 10981584

: WC0878560 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 18 Apr 2024 - Wes Davis **CARCO TRANSPORTATION**

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR US 72206

Contact: DENNIS CATES

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

* - 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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