WEAR CONTAMINATION FLUID CONDITION

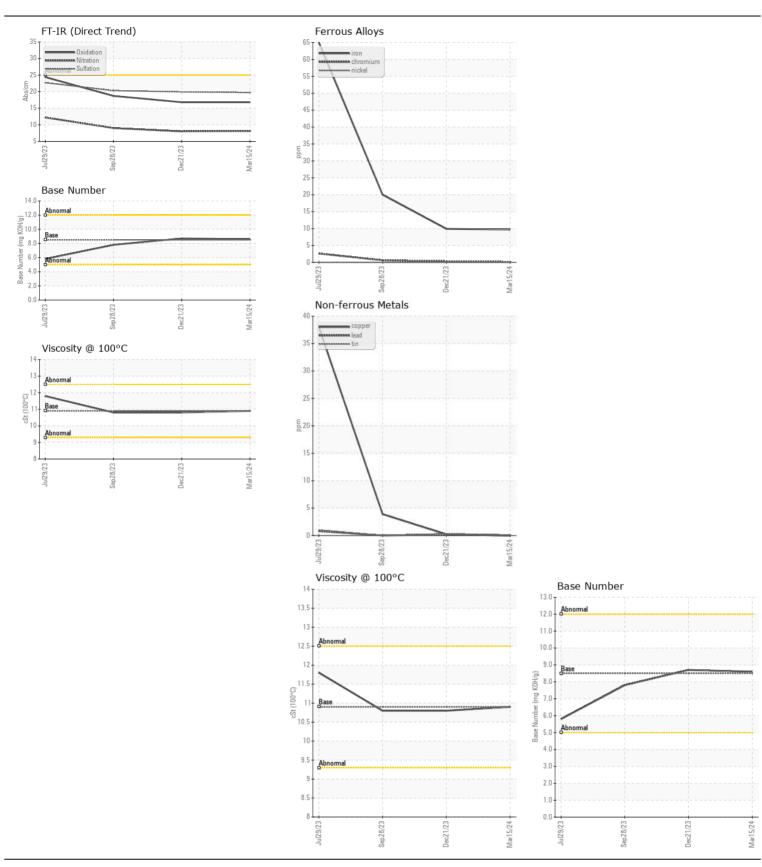
NORMAL NORMAL NORMAL

Machine Id

3558

## 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	OOW	Client Info	LIIIIII/AUII	WC0878559	WC0878601	WC0854013
	Sample Date		Client Info		15 Mar 2024	21 Dec 2023	28 Sep 2023
	Machine Age	mls	Client Info		41959	32774	23521
	Oil Age	mls	Client Info		9185	9254	9702
	Filter Age	mls	Client Info		9185	9254	9702
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	10	20
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	3
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>330	0	<1	4
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	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	4	5	8
	Potassium	ppm	ASTM D5185m	>20	1	2	5
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	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.9	20.3
	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	0	2
	Boron	ppm	ASTM D5185m	250	1	2	4
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	58	59	56
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m	450	950	981	901
	Calcium	ppm	ASTM D5185m		1035	1053	1216
	Phosphorus	ppm	ASTM D5185m	1150	1024	1132	968
	Zinc	ppm	ASTM D5185m		1213	1303	1237
	Sulfur	ppm	ASTM D5185m	4250	3294	3181	2990
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.8	18.7
	Dana Mussalans (DM)	ma KOU/a	ASTM D2896	0.5	8.6	8.7	7.8
	Base Number (BN)	IIIg NOn/g	A3 1 W D2030	0.5	0.0	0.7	7.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06151507 Unique Number: 10981585 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878559 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

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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