WEAR CONTAMINATION FLUID CONDITION

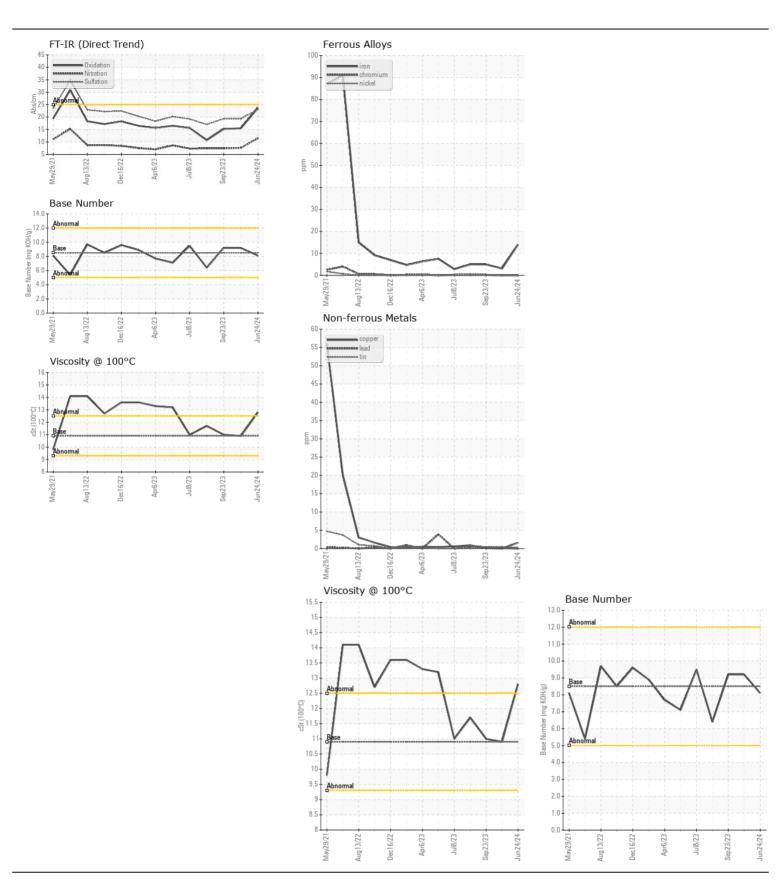
NORMAL NORMAL NORMAL

Machine Id

20618

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0916515	WC0878605	WC085401
We advise that you check for the source of water entry. Resample at the next service interval to monitor.	Sample Date		Client Info		24 Jun 2024	02 Jan 2024	23 Sep 202
	Machine Age	mls	Client Info		231720	205524	182250
	Oil Age	mls	Client Info		26196	11314	7428
	Filter Age	mls	Client Info		26196	11314	7428
	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	14	3	5
WEAR	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		8	3	<1
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m	>330	2	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<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	nnm	ASTM D5185m	> 25	6	3	3
	Potassium	ppm	ASTM D5185m		7	3	4
There is a moderate concentration of water present in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	7.6	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	19.3	19.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	<1
LOID CONDITION	Boron	ppm	ASTM D5185m	250	21	2	0
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		67	62	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	633	999	993
	Calcium	ppm	ASTM D5185m		1632	1081	1268
	Phosphorus	ppm	ASTM D5185m	1150	858	1180	1090
	Zinc	ppm	ASTM D5185m		1006	1343	1386
	Sulfur	ppm	ASTM D5185m		3129	3329	3622
	Oxidation	Abs/.1mm	*ASTM D7414		23.7	15.5	15.2
	Base Number (BN)		ASTM D2896		8.1	9.2	9.2
	Visc @ 100°C	cSt	ASTM D445	10.9	12.8	10.9	11.0







Certificate L2367

Laboratory Sample No.

: WC0916515 Lab Number : 06235334 Unique Number : 11124168 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Don Baldridge **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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