WEAR CONTAMINATION FLUID CONDITION

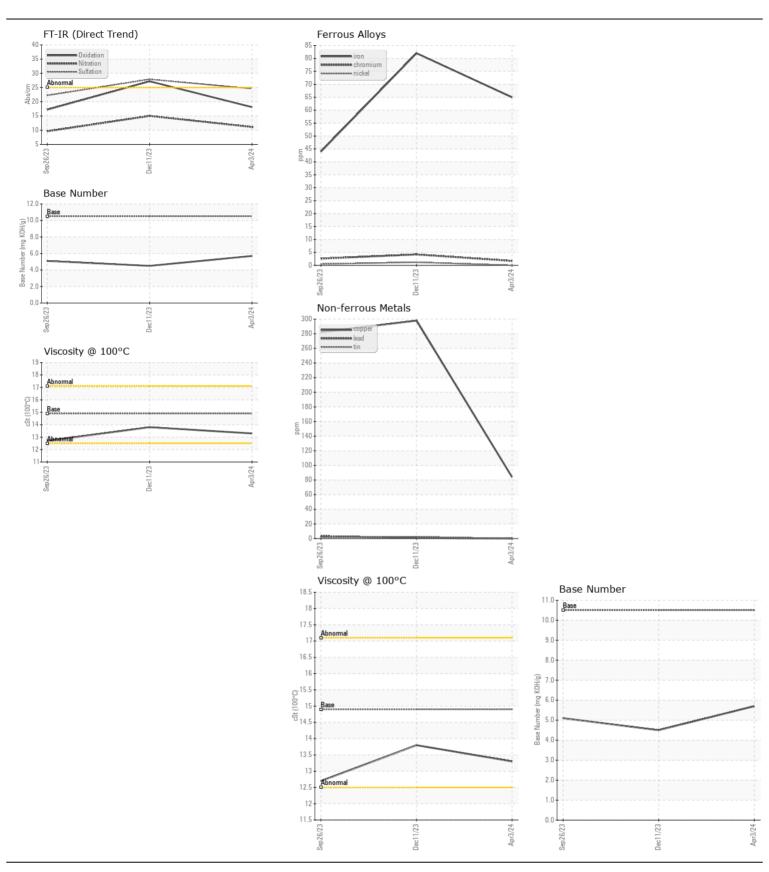
NORMAL NORMAL

Machine Id

2337

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0720170	WC0720154	WC0720179
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		03 Apr 2024	11 Dec 2023	26 Sep 202
	Machine Age	mls	Client Info		173112	125097	70468
	Oil Age	mls	Client Info		50000	100000	50000
	Filter Age	mls	Client Info		50000	50000	50000
	Oil Changed		Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	65	82	44
	Chromium	ppm	ASTM D5185m	>20	2	4	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		17	24	17
	Lead	ppm	ASTM D5185m	>40	0	<1	3
	Copper	ppm	ASTM D5185m	>330	84	298	282
	Tin	ppm	ASTM D5185m	>15	0	2	2
	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	9	14	8
	Potassium	ppm	ASTM D5185m		43	65	48
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	1-1-	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	1	1.3	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	15.0	9.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	27.9	22.2
	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	4	2
	Boron	ppm	ASTM D5185m	0	0	<1	0
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	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	2	6	7
	Manganese	ppm	ASTM D5185m		1	2	1
	Magnesium	ppm	ASTM D5185m	60	45	103	99
	Calcium	ppm	ASTM D5185m	3050	2399	2602	2390
	Phosphorus	ppm	ASTM D5185m	1050	829	972	864
	Zinc	ppm	ASTM D5185m		973	1238	1144
	Sulfur	ppm	ASTM D5185m		3096	2856	2858
	Oxidation	Abs/.1mm	*ASTM D7414		18.1	27.2	17.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	5.7	4.5	5.1
	Visc @ 100°C	cSt		14.9	13.3	13.8	12.7







Certificate L2367

Laboratory Sample No.

: WC0720170 Lab Number : 06149459 Unique Number: 10979537 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 : 15 Apr 2024 **Tested** : 16 Apr 2024

Diagnosed : 16 Apr 2024 - Wes Davis **DILLON TRANSPORTATION** 974 TN WALTZ PARKWAY

ASHLAND CITY, TN US 37015

Contact: MASON NICHOLSON

M.NICHOLSON@DILLONTRANSPORTATION.COM T: (615)792-5099

* - 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)

F: (615)469-4200