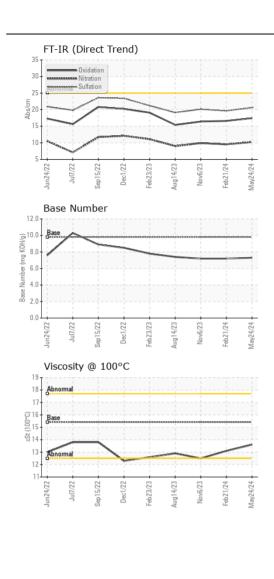


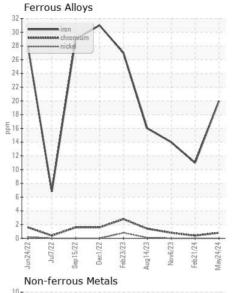
WEAR CONTAMINATION **FLUID CONDITION**

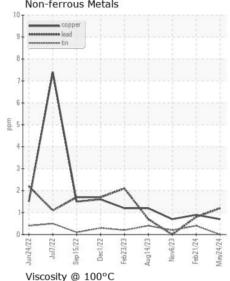
NORMAL NORMAL NORMAL

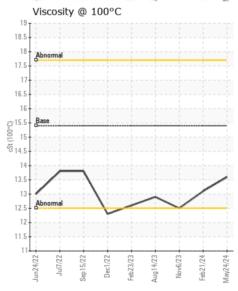
RTS Machine Id [RTS] 888
Component
Diesel Engine

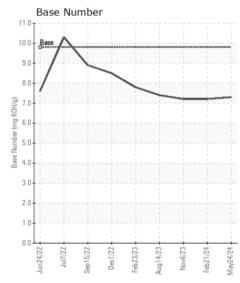
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0901445	WC0901480	WC084378
	Sample Date		Client Info		24 May 2024	21 Feb 2024	06 Nov 202
	Machine Age	mls	Client Info		494668	483575	472891
	Oil Age	mls	Client Info		11093	10684	10893
	Filter Age	mls	Client Info		11093	10684	10893
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	\ 75	20	11	14
WLAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	4
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		0	<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	ppm	ASTM D5185m		6	6	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		29	21	39
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.5	9.9
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		20.6 NONE	19.6	20.1 NONE
	Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		17	12	18
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	0	3	8	11
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	61	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		942	926	918
	Calcium	ppm	ASTM D5185m		1094	1017	1001
	Phosphorus	ppm	ASTM D5185m		1014	1060	936
	Zinc	ppm	ASTM D5185m		1210	1264	1217
	Sulfur	ppm	ASTM D5185m		3229	2940	2840
	()vidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.6	16.4
	Oxidation Base Number (BN)		ASTM D2896		7.3	7.2	7.2













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0901445 Lab Number : 06196132 Unique Number : 11058255

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

Received **Tested** Diagnosed

: 30 May 2024 : 31 May 2024

: 31 May 2024 - Wes Davis

HUMBOLDT TRANSIT AUTHORITY 133 V ST EUREKA, CA US 95501 Contact: Jim Wilson jim@hta.org

T: (707)443-0828

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)