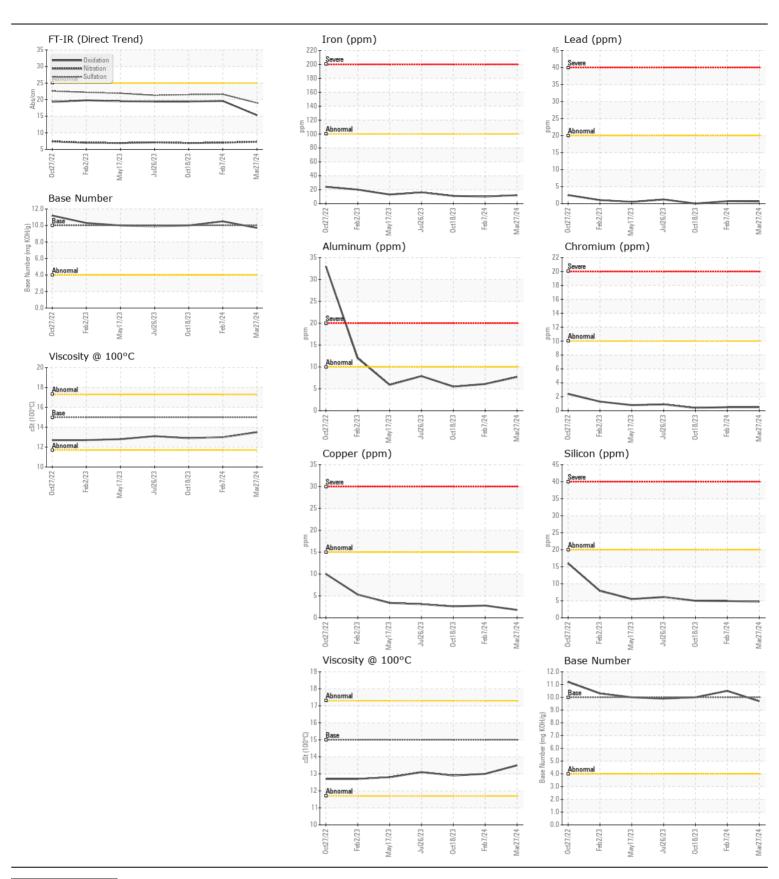
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[CITRUS COUNTY] VOLVO L110H 632401

Diesel Engine

	_				(_)		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP440673		VCP433370
	Sample Date		Client Info		27 Mar 2024	07 Feb 2024	18 Oct 2023
	Machine Age	hrs	Client Info		3649	3072	2627
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	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	12	10	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		8	6	6
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		2	3	3
	Tin	ppm	ASTM D5185m		- <1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.11.		AOTA DE LOS		_		
	Silicon	ppm	ASTM D5185m		5	5	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	3	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.0	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	21.6	21.5
	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	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	1
	Boron	ppm	ASTM D5185m	2.5	8	40	38
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	<1	7
	Molybdenum	ppm	ASTM D5185m	0.7	55	36	46
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		879	448	485
	Calcium	ppm	ASTM D5185m		1223	1761	1607
	Phosphorus	ppm	ASTM D5185m		1059	971	923
	Zinc	ppm	ASTM D5185m		1236	1100	1101
	Sulfur	ppm	ASTM D5185m		3512	3250	3473
	Oxidation	Abs/.1mm	*ASTM D7414		15.3	19.6	19.4
	Base Number (BN)				9.7	10.5	10.0
	Visc @ 100°C	9	ASTM D445				12.9







Certificate L2367

Laboratory Sample No. Unique Number : 11044011

: VCP440673 Lab Number : 06187259

Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024 **Tested**

: 23 May 2024 Diagnosed

: 23 May 2024 - Don Baldridge

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 8418 PALM RIVER ROAD TAMPA, FL

US 33619 Contact: KENNY HANEY

khaney@flaglerce.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233