WEAR CONTAMINATION **FLUID CONDITION**

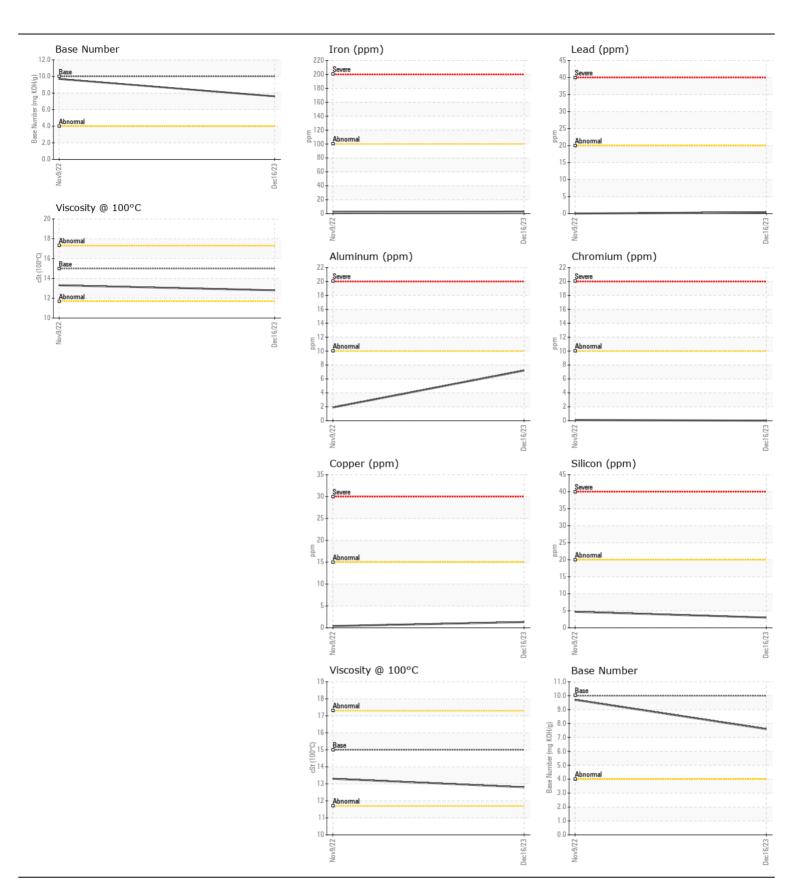
NORMAL NORMAL NORMAL



Area [HERC] **VOLVO L110H 632016**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP429577	VCP385128	
	Sample Date		Client Info		16 Dec 2023	09 Nov 2022	
	Machine Age	hrs	Client Info		2024	1380	
	Oil Age	hrs	Client Info		0	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	3	2	
VEAIL	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	>10	0	0	
	Silver		ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		7	2	
	Lead					0	
		ppm	ASTM D5185m		<1 1		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		0	<1 0	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Tellow Metal		Visuai	NONE	HONE	NONL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	1	
	Fuel		WC Method	>6.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	
EGIS GONSTITION	Boron	ppm	ASTM D5185m	2.5	323	386	
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	
	Molybdenum	ppm	ASTM D5185m		86	98	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		394	419	
	Calcium	ppm	ASTM D5185m		1333	1392	
	Phosphorus	ppm	ASTM D5185m		928	944	
	Zinc	ppm	ASTM D5185m		1229	1108	
	Sulfur	ppm	ASTM D5185m		3033	3883	
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	14.3	
	Base Number (BN)				7.6	9.7	
	Visc @ 100°C	cSt	ASTM D445		12.8	13.3	





Laboratory Sample No. Lab Number **Unique Number**

: VCP429577 : 06057744 : 10823693

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024

Diagnosed : 12 Jan 2024 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

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. ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619

Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (813)630-2233