WEAR CONTAMINATION FLUID CONDITION

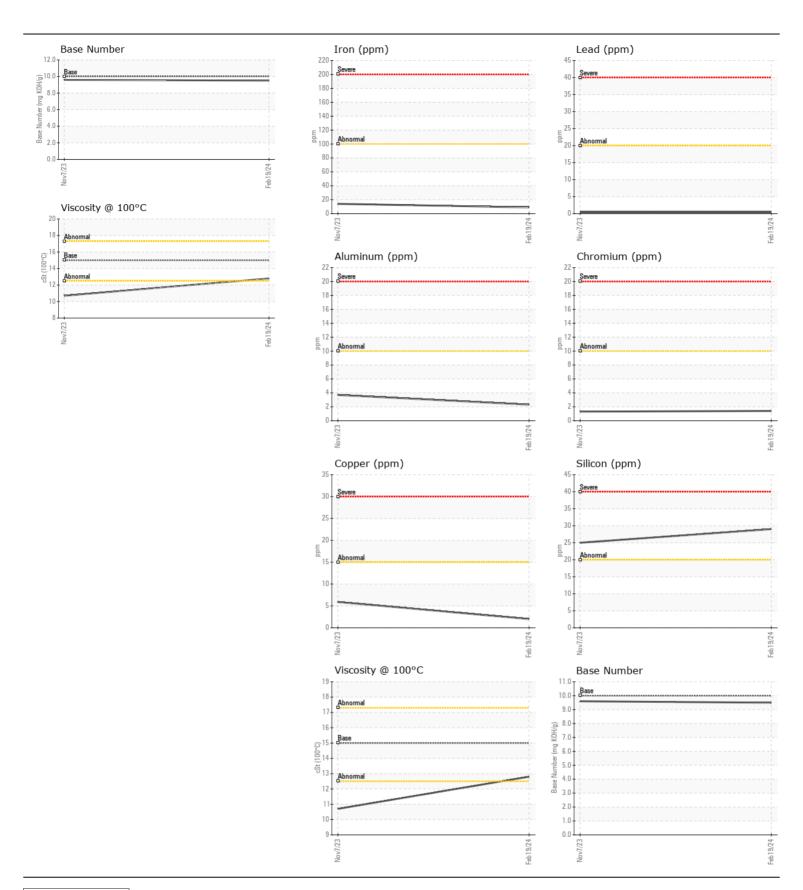
NORMAL NORMAL NORMAL



[HILLSBOROUGH] Wachine Id VOLVO EW160EL 324178

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP435613	VCP431775	
	Sample Date		Client Info		19 Feb 2024	07 Nov 2023	
	Machine Age	hrs	Client Info		929	479	
	Oil Age	hrs	Client Info		0	479	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m		9	14	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	1	
	Nickel	ppm	ASTM D5185m	>10	2	5	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m	>10	1	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	29	25	
	Potassium	ppm	ASTM D5185m		3	2	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>6.0	<1.0	0.4	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	70.1	NEG	NEG	
	Soot %	%	*ASTM D7844	\3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.3	
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	22.1	
	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		*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	
	Boron	ppm	ASTM D5185m	2.5	31	48	
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	2	0	
	Molybdenum	ppm	ASTM D5185m	0.7	45	34	
	Manganese	ppm	ASTM D5185m	0.0	1	4	
	Magnesium	ppm	ASTM D5185m	256	585	496	
	Calcium	ppm	ASTM D5185m	2057	1319	1448	
	Phosphorus	ppm	ASTM D5185m	935	910	866	
	Zinc	ppm	ASTM D5185m	1223	1083	1039	
	Sulfur	ppm	ASTM D5185m	4079	3192	2797	
	Oxidation	Abs/.1mm	*ASTM D7414		18.1	20.4	
	Base Number (BN)	ma K∩U/a	VCTM DOSOE	10	9.5	9.6	







Laboratory Sample No.

Lab Number : 06102230

: VCP435613 Unique Number : 10900460

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested**

: 28 Feb 2024 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 28 Feb 2024 - Wes Davis

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

US 33619 Contact: KENNY HANEY khaney@flaglerce.com

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.

T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233