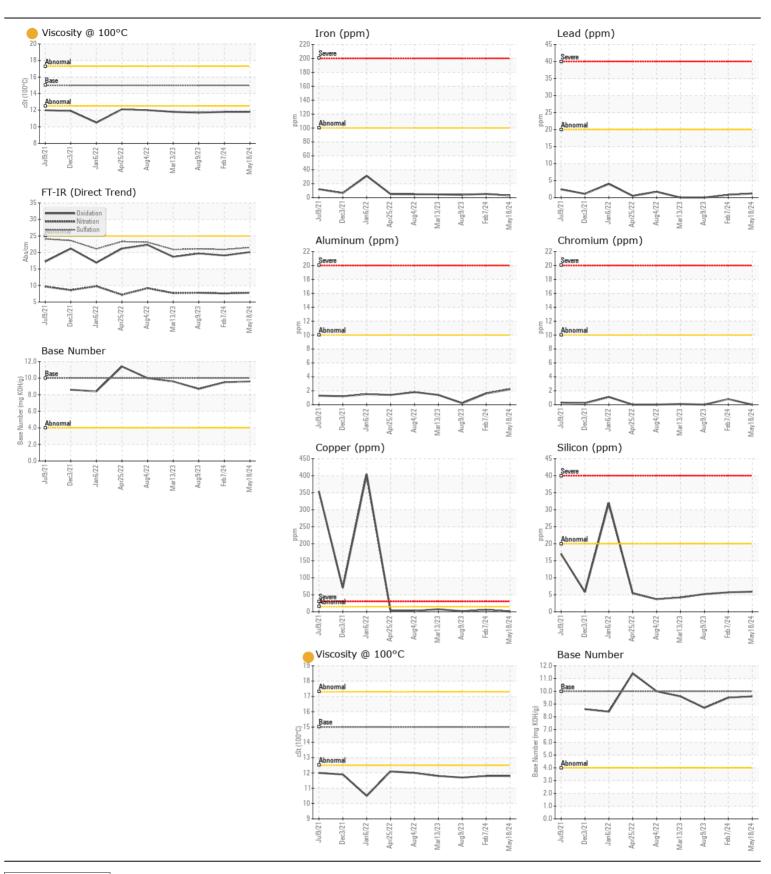
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION



[TUCKER PAVING] VOLVO EC380E 314427 Component Diesel Engine

VOLVO ULTRA DIESEL ENGIN	NE OIL 15W4	ט עט:	5-3 (0	AL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP450938	VCP432181	VCP42514
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		18 May 2024	07 Feb 2024	09 Aug 2020
	Machine Age	hrs	Client Info		5148	4527	4011
	Oil Age	hrs	Client Info		0	500	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				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	3	5	4
	Chromium	ppm	ASTM D5185m	>10	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	2	<1
	Lead	ppm	ASTM D5185m		1	- <1	0
	Copper	ppm	ASTM D5185m		<1	6	2
	Tin	ppm	ASTM D5185m		<1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	1.0	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG 0.1	NEG
	Soot %	%	*ASTM D7844		0.1	0.1 7.6	0.1 7.8
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.8 21.5	20.9	21.1
	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		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	3
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		41	31	30
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		42	43	46
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		548	428	534
	Calcium	ppm	ASTM D5185m	2057	1692	1447	1784
	Phosphorus	ppm	ASTM D5185m		996	840	934
	Zinc	ppm	ASTM D5185m		1148	980	1132
	Sulfur	ppm	ASTM D5185m		3584	3055	3489
	Oxidation	Abs/.1mm	*ASTM D7414		20.1	19.1	19.7
	Base Number (BN)				9.6	9.5	8.7
	Visc @ 100°C	cSt	ASTM D445	15.0	11.8	11.8	11.7





Certificate L2367

Laboratory Sample No. Unique Number: 11050438

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP450938 Lab Number : 06193686

Received **Tested** Diagnosed

: 29 May 2024 : 30 May 2024

: 30 May 2024 - Sean Felton

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

US 33619 Contact: KENNY HANEY khaney@flaglerce.com

T: (813)630-0077

F: (813)630-2233

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.

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