WEAR CONTAMINATION FLUID CONDITION

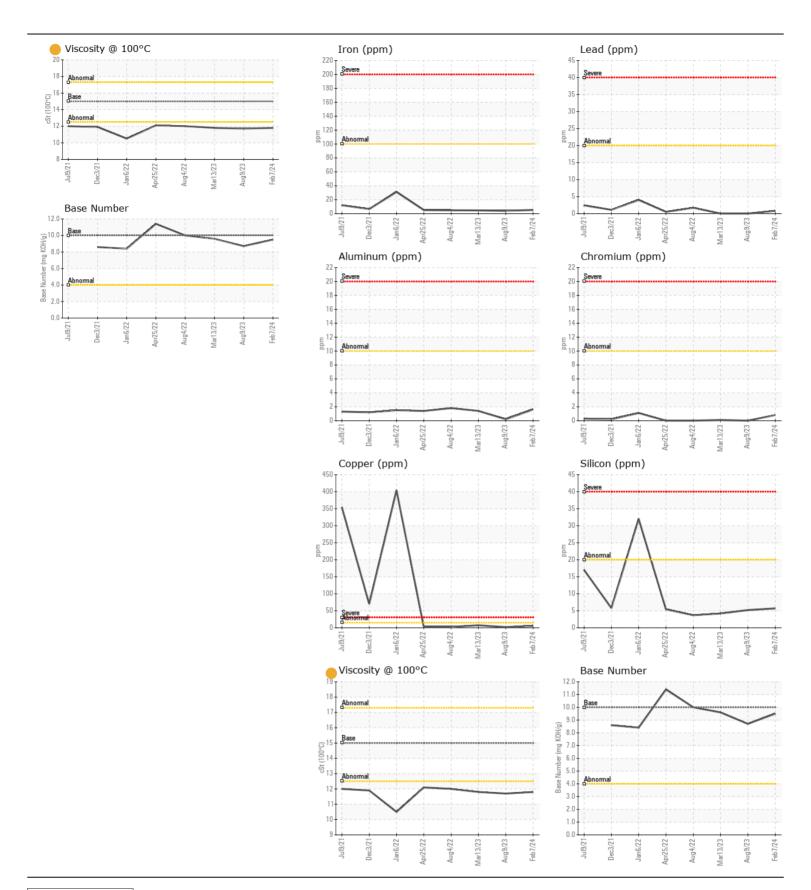
NORMAL NORMAL ATTENTION



[673173 TUCKER PAVING] Machine Id VOLVO EC380E 314427

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	30101	Client Info		VCP432181	VCP425141	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	09 Aug 2023	13 Mar 2023
	Machine Age	hrs	Client Info		4527	4011	3403
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	5	4	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	1
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m		6	2	7
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	5	4
33117 (IIIII (7111311	Potassium	ppm	ASTM D5185m		1	0	<1
There is no indication of any contamination in the oil.	Fuel	PP	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.8	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.1	20.9
	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	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	2
	Boron	ppm	ASTM D5185m	2.5	31	30	24
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	1	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	43	46	48
	Manganese	ppm	ASTM D5185m	0.0	1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	428	534	687
	Calcium	ppm	ASTM D5185m		1447	1784	1653
	Phosphorus	ppm	ASTM D5185m	935	840	934	999
	Zinc	ppm	ASTM D5185m	1223	980	1132	1217
	Sulfur	ppm	ASTM D5185m	4079	3055	3489	3954
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	19.7	18.7





Certificate L2367

Laboratory Sample No.

Lab Number : 06102678 Unique Number: 10900908

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP432181

Received **Tested**

: 29 Feb 2024 : 29 Feb 2024 - Don Baldridge Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 28 Feb 2024

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

US 33619 Contact: JOHN FARDELLA

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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)