WEAR CONTAMINATION **FLUID CONDITION**

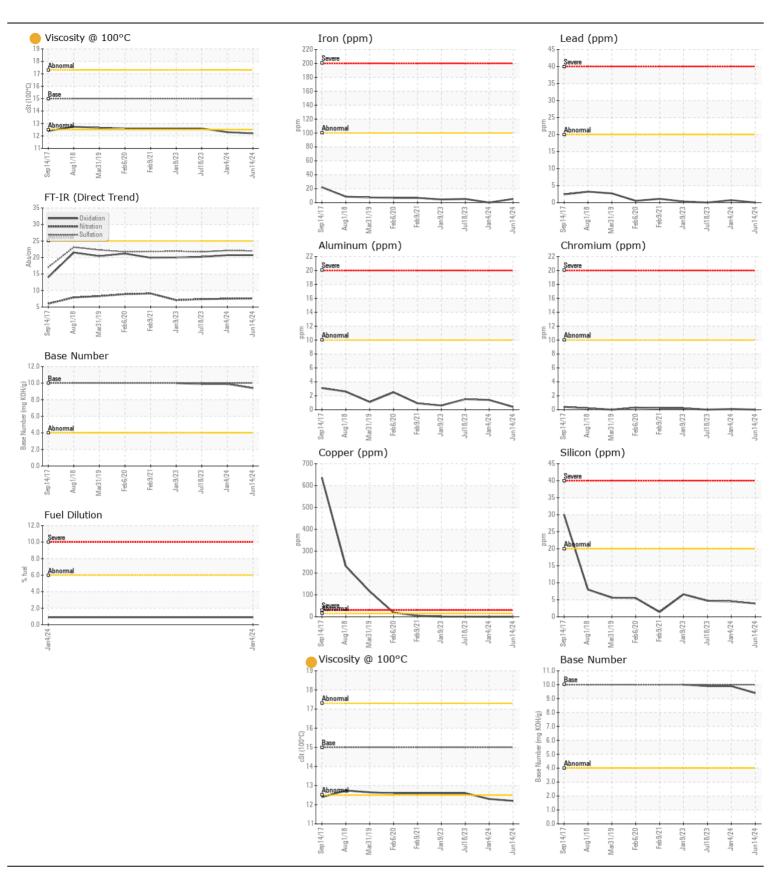
NORMAL NORMAL ATTENTION

Machine Id

VOLVO EC380EL 310195

Diesel Engine

DECOMMENDATION	Toot	11044	Mathad	Limit/Alex	Command	I liotom :4	Llieterro
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method Client Info	Limit/Abn	Current VCP433670	History1 VCP382955	History2 VCP38327
	Sample Number Sample Date		Client Info		14 Jun 2024	04 Jan 2024	18 Jul 202
	Machine Age	hrs	Client Info		6300	5715	5200
	Oil Age	hrs	Client Info		500	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1115	Client Info		Changed	N/A	Changed
	Filter Changed Sample Status		Client Info		Changed ATTENTION	N/A NORMAL	Changed NORMAL
	Sample Status				ATTENTION	NONWAL	NONIVIAL
VEAR	Iron	ppm	ASTM D5185m	>100	5	0	5
· - /	Chromium	ppm	ASTM D5185m	>10	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	0
	Fuel	%	ASTM D3524	>6.0	<1.0	0.9	<1.0
	Water		WC Method	>0.1	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	7.5	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.1	21.7
	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	scalar	*Visual	>0.1	NEG	NEG	NEG
I LUD CONDITION	Cadium		ACTM DE10Em		0	0	0
LUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	2.5	2 33	0 41	2 51
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	0	<1
	Molybdenum	ppm ppm	ASTM D5185m		36	38	41
	Manganese		ASTM D5185m			<1	<1
	Magnesium	ppm	ASTM D5185m		0 467	500	554
	Calcium	ppm	ASTM D5185m		467 1649	1589	1829
	Phosphorus	ppm	ASTM D5185m		893	911	1014
	Zinc	ppm	ASTM D5185m		1000	1082	1220
	Sulfur	ppm	ASTM D5185m			2635	3610
	Oxidation	ppm Abs/1mm	*ASTM D5185m		3036 20.7	20.7	20.2
	Base Number (BN)	Abs/.1mm	ASTM D7414 ASTM D2896		9.4	9.9	9.9
	Dase Milliber (BM)	HIU NUM/0	MO 1 IVI DZ090	IU	5.4	5.5	5.5





Certificate L2367

Laboratory Sample No. Unique Number: 11087197

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP433670

: 06214333

Received **Tested**

: 19 Jun 2024 : 20 Jun 2024

: 21 Jun 2024 - Don Baldridge

Test Package: MOB 1 (Additional Tests: FuelDilution, 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.

Diagnosed

LEONARDS CONTRACTING

30850 STEPHENSON HWY MADISON HEIGHTS, MI

US 48071 Contact: LARRY SCHRADE larry.schrade@sdevelop.com

T: (810)499-1953 F: x:

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