

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



## Machine Id VOLVO EC380E C380E311738

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
<b>HECOMMENDATION</b>	Sample Number	00101	Client Info	LITTICADI	JR0205838	JR0188897	JR0178907
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and	Sample Date		Client Info		24 Apr 2024	18 Oct 2023	01 Aug 2023
	Machine Age	hrs	Client Info		6637	6129	5661
	Oil Age	hrs	Client Info		508	5661	5661
viscosity of the oil on your next sample.	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
							NOTIMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	7	4	5
	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	5	3	1
	Lead	ppm	ASTM D5185m	>20	1	<1	0
	Copper	ppm	ASTM D5185m	>15	1	3	0
	Tin	ppm	ASTM D5185m	>10	1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Ciliana				•	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185m ASTM D5185m		9 2	6 <1	6 0
Light fuel dilution occurring. No other contaminants were detected in	Potassium Fuel	ppm %	ASTM D3185111 ASTM D3524		4.0	<1.0	<1.0
the oil.	Water	/0	WC Method		4.0 NEG	NEG	NEG
	Glycol		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.2	11.5
	Sulfation	Abs/.1mm	*ASTM D7624		23.8	22.2	23.3
	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	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		191	146	63
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	<1	0
	Molybdenum	ppm	ASTM D5185m	100	249	227	54
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		779	723	584
	Calcium	ppm	ASTM D5185m		1377	1420	1724
	Phosphorus	ppm	ASTM D5185m		852	840	995
	Zinc	ppm	ASTM D5185m		1031	1058	1217
	Sulfur	ppm	ASTM D5185m		2991	2846	3477
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	19.3	24.1

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

6.9

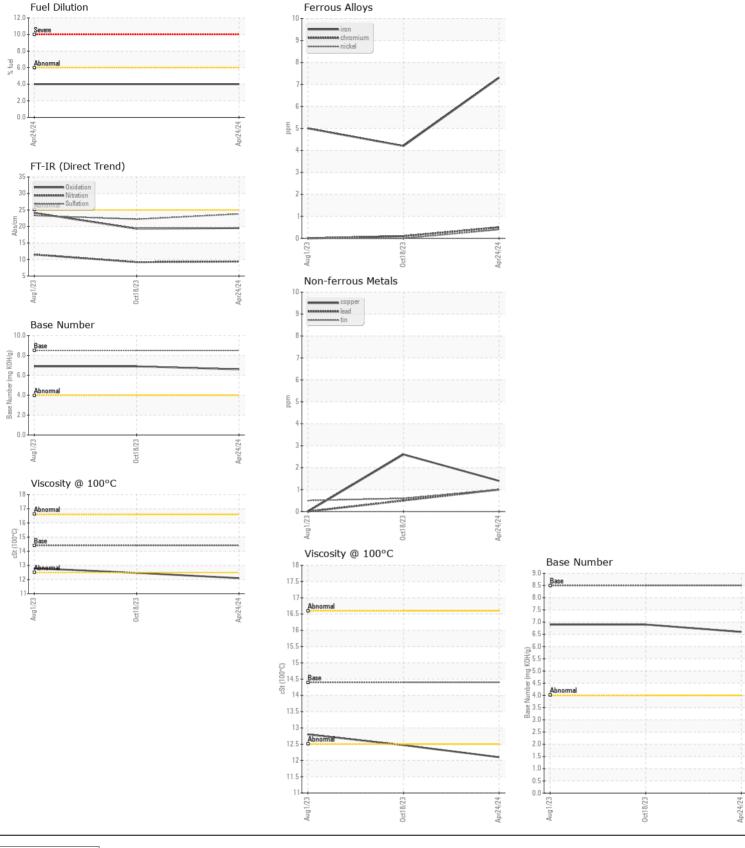
12.8

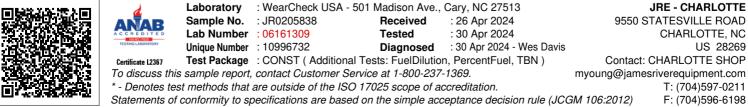
6.9

12.47

6.6

12.1





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