

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



## VOLVO EC380 2357 (S/N 315851)

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0011242	ASC0008761	
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jun 2024	13 Mar 2024	
	Machine Age	hrs	Client Info		1549	973	
	Oil Age	hrs	Client Info		1549	973	
	Filter Age	hrs	Client Info		549	973	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		2	1	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	<1	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m	>150	16	16	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	2	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	0	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		9100	3998	
	Particles >6µm		ASTM D7647		1388	360	
	Particles >14µm		ASTM D7647		35	19	
	Particles >21µm		ASTM D7647		8	5	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647	>40	0	0	
	Oil Cleanliness		ISO 4406 (c)		20/18/12	19/16/11	
	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	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	000	ACTM DE105m		.1	0	
<b>FLOID</b> CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	5	<1 0	3 0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m	5	0	0	
	Magnesium	ppm	ASTM D5185m	25	0	0	
	Calcium	ppm	ASTM D5185m ASTM D5185m		101	98	
		ppm					
	Phosphorus	ppm	ASTM D5185m		457	383	
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	370	614	471 1074	
	Sullui Asist Newsbarr (ANI)	ppm		2500	1358	1074	

Acid Number (AN) mg KOH/g ASTM D8045 0.57

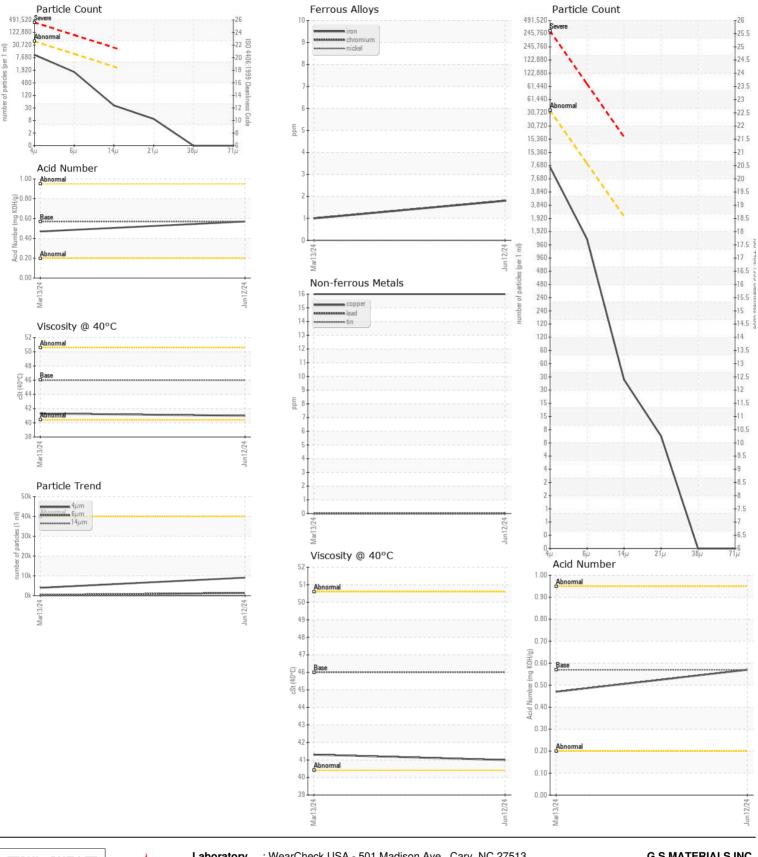
Visc @ 40°C cSt ASTM D445 46

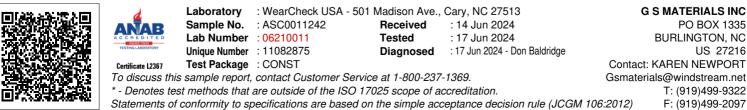
0.47

41.3

0.57

41.0





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