

Machine Id VOLVO L220H 33602 (S/N 3312) Component Hydraulic System Fluid VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00101	Client Info	Ennerton	VKC0001255	VKC0000667	
	Sample Date		Client Info		01 Jul 2024	16 May 2023	
	Machine Age	hrs	Client Info		6176	4056	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	5	6	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	1	0	
	Lead	ppm	ASTM D5185m	>20	<1	1	
	Copper	ppm	ASTM D5185m	>150	1	2	
	Tin	ppm	ASTM D5185m	>20	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
	Silicon	ppm	ASTM D5185m	-	3	3	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185m		2	1	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		784	3021	
	Particles >6µm		ASTM D7647		277	798	
	Particles >14µm		ASTM D7647		11	52	
	Particles >21µm		ASTM D7647		3	20	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		17/15/11	19/17/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	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	ppm	ASTM D5185m		<1	1	
	Boron	ppm	ASTM D5185m	14	0	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		0	0	
	Magnesium	ppm	ASTM D5185m		<1	1	
	Calcium	ppm	ASTM D5185m		36	60	
	Phosphorus	ppm	ASTM D5185m		310	311	
	Zinc	ppm	ASTM D5185m		422	424	
	Sulfur	ppm	ASTM D5185m		1827	1669	
		pp		00			

 Acid Number (AN)
 mg KOH/g
 ASTM D8045

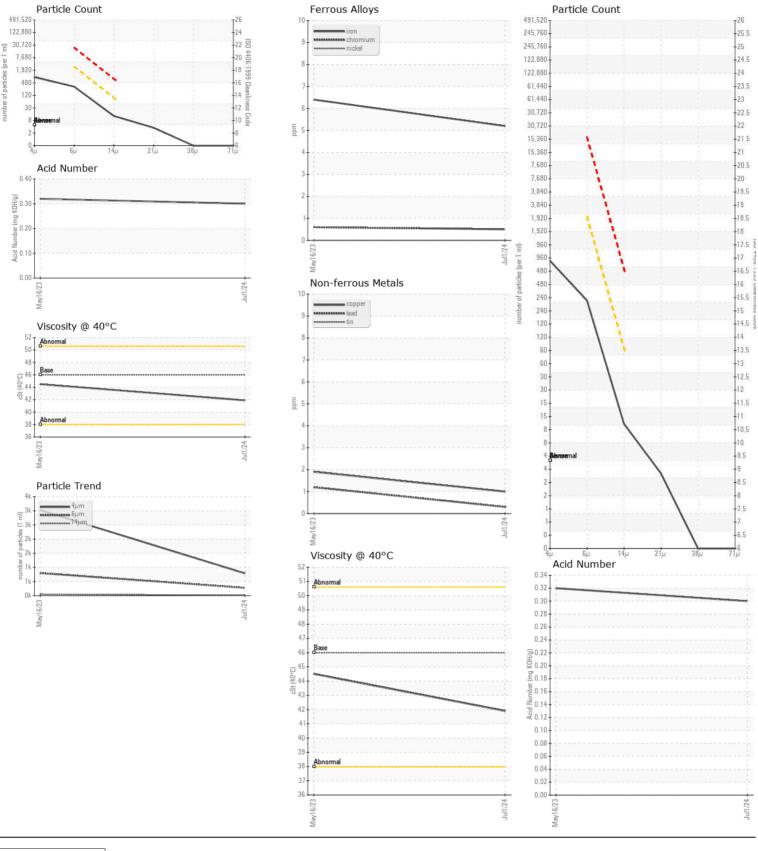
 Visc @ 40°C
 cSt
 ASTM D445
 46

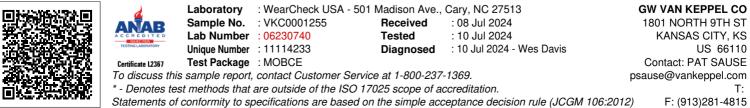
0.32

44.5

0.30

41.9





Contact/Location: PAT SAUSE - GWVKAN Page 2 of 2