

[SWO-072945] EPIROC TMG21SED0346 Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

CONTAMINATION

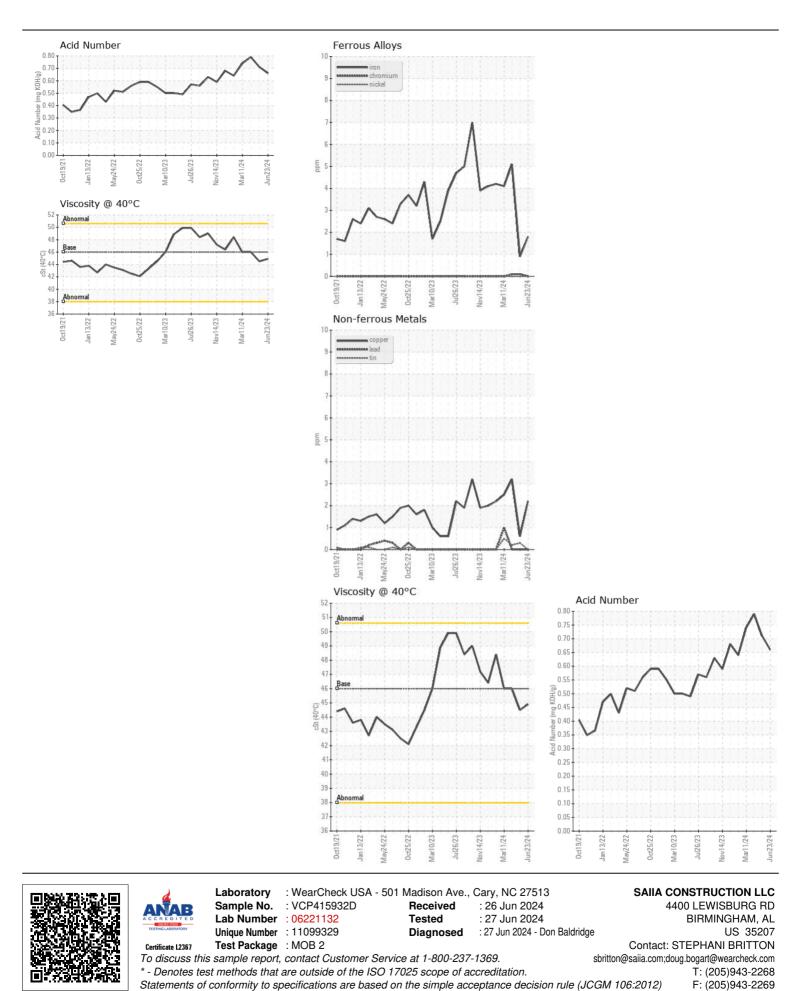
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP415932D	VCP453683	VCP455401
Sample Date	la va	Client Info		23 Jun 2024	30 Apr 2024	17 Mar 2024
Machine Age	hrs	Client Info		5768	5492	5276
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		-	÷	÷
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd ABNORMAL	Not Changd	Changed NORMAL
Sample Status					ATTENTION	NORIVIAL
Iron	ppm	ASTM D5185m	>20	2	<1	5
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	<1	3
Tin	ppm	ASTM D5185m	>10	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
Ciliana				<u>^</u>	0	
Silicon	ppm	ASTM D5185m	>20	6 <1	6 0	7
Potassium	ppm	ASTM D5185m	>20	<1 NEG	÷	NEG
Water Particles >4µm		WC Method ASTM D7647	>0.1 >5000	NEG	NEG	2483
Particles >6µm		ASTM D7647 ASTM D7647	>1300		878	845
Particles >0µm		ASTM D7647 ASTM D7647	>160		12	60
Particles >21µm		ASTM D7647 ASTM D7647	>40		3	10
Particles >38µm		ASTM D7647 ASTM D7647	>10		0	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		20/17/11	18/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	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		*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		1	0	1
Boron	ppm	ASTM D5185m	14	<1	<1	0
Barium	ppm	ASTM D5185m	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	1	2
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	75	76	112
Calcium	ppm	ASTM D5185m	49	109	124	103
Phosphorus	ppm	ASTM D5185m	354	580	556	531
Zinc	ppm	ASTM D5185m	419	713	689	712
Sulfur	ppm	ASTM D5185m	3719	2494	2396	2187
Acid Number (AN)	mg KOH/g	ASTM D8045	40	0.66	0.71	0.79
Visc @ 40°C	cSt	ASTM D445	46	44.9	44.5	46.0



Contact/Location: STEPHANI BRITTON - SAIBIR