WEAR CONTAMINATION FLUID CONDITION

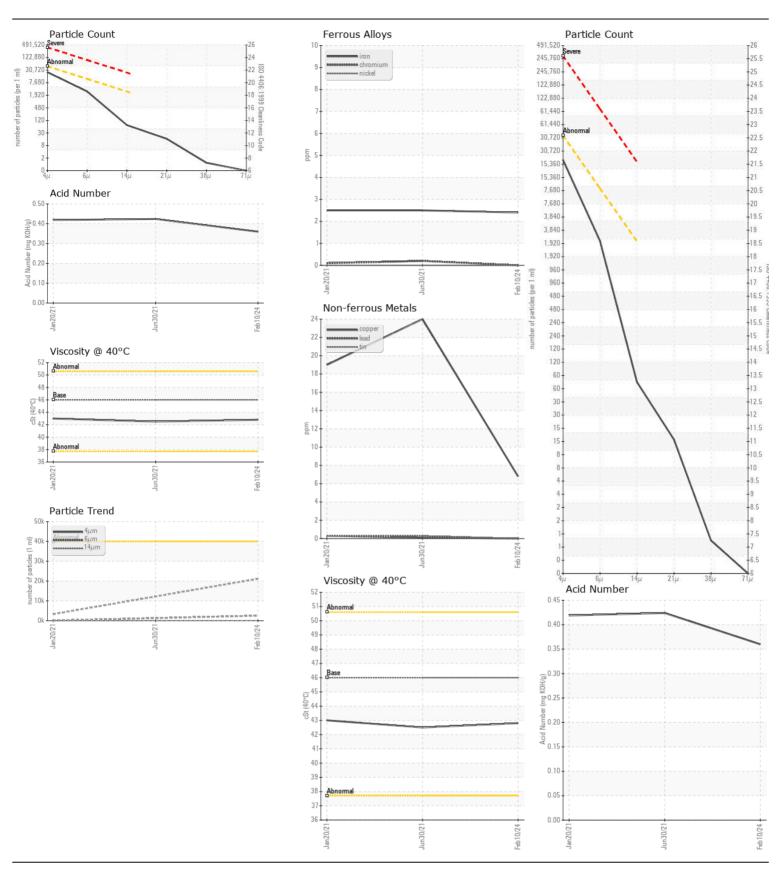
NORMAL NORMAL NORMAL



[SPM646635-10] **VOLVO EC350EL 314018**

Component Hydraulic System

Sample Date Machine Age hrs Cilent Info 0 0 0 0 0 0 0 0 0	VOLVO SUPER HYDRAULIC	OIL 46 (GA	L)					
Resample at the next service interval to monitor.	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 0 0 0 0 0 0 0 0 0		Sample Number		Client Info		VCP421351	VCP323329	VCP299535
Oil App	Resample at the next service interval to monitor.	Sample Date		Client Info		10 Feb 2024	30 Jun 2021	20 Jan 2021
Filter Age brs Client Info NA Changed No Changed Changed Changed Changed No Changed Changed Changed No Chang		Machine Age	hrs	Client Info		4219	1857	1299
Cil Changed Cilent Info Changed Chang		Oil Age	hrs	Client Info		0	0	0
Filter Changed Change		Filter Age	hrs	Client Info		0	0	0
Nome		Oil Changed		Client Info		N/A	Changed	Not Changd
Iron		Filter Changed		Client Info		Changed	Changed	Not Changd
Chromium Oph ASTIM District 10 0 0 0 0 0 0 0 0		Sample Status				NORMAL	ABNORMAL	NORMAL
Nicke ppm ASTM D6185m 0-10 0 0 0 0 0 0 0 0 0	WEAR	Iron	ppm	ASTM D5185m	>25	2	2	2
Titanium ppm ASTM DS185m c1 0 0 0 0 0 0 0 0 0		Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Silver		Nickel	ppm	ASTM D5185m	>10	0	0	0
Aluminum ppm ASTM D5165m > 20 0 0 0 0 0 1 1 1 1		Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m 3-20 0 <1 <1 <1 <1 <1 <1 <1		Silver	ppm	ASTM D5185m		0	0	0
Copper		Aluminum	ppm	ASTM D5185m	>20	0	0	0
Tin		Lead	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium Vanadium		Copper	ppm	ASTM D5185m	>150	7	24	19
White Metal Yellow Metal Scalar "Visual NONE NONE NONE NONE NONE NONE NONE NON		Tin	ppm	ASTM D5185m	>10	0	<1	<1
Yellow Metal Scalar *Visual NONE N		Vanadium	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >50 2 0 2		White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Potassium ppm ASTM D588sm ≥20 2 0 <1		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D588sm ≥20 2 0 <1		Silicon	ppm	ASTM D5185m	>50	2	0	2
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Particles >4μm								
Particles >4µm ASTM D7647 >40000 21133 3300 Particles >6µm ASTM D7647 >10000 2534 97 Particles >14µm ASTM D7647 >20000 2634 97 Particles >21µm ASTM D7647 >2000 63 5 Particles >21µm ASTM D7647 >640 14 0 Particles >71µm ASTM D7647 >640 14 0 Particles >71µm ASTM D7647 >40 0 0 0 0 Particles >71µm ASTM D7647 >40 0 0 0 0			le le · · ·					
Particles >6μm ASTM D7647 >10000 2534 97								
Particles >14μm								
Particles > 21 µm		·						
Particles > 38µm ASTM D7647 > 160 1		Particles >21µm		ASTM D7647	>640			
Particles >71 μm				ASTM D7647	>160	1		0
Oil Cleanliness ISO 4406 (c) >22/219/13 19/14/1 Silt scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NORML				ASTM D7647	>40	0		0
Silt Scalar *Visual NONE NORML NOR		Oil Cleanliness				22/19/13		19/14/10
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML		Silt	scalar			NONE	NONE	NONE
Appearance Scalar *Visual NORML NOR		Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Odor Emulsified Water scalar scalar scalar *Visual scalar NORML voice NORML NORM NORM NORML NORM NORM NORML NORM NEG FLUID CONDITION Sodium ppm ASTM D5185m 4 -0.2% -1 0 0 -1 0 0 -1 0 0 -1 0 0 -1 0 0 -1 0		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG 0.2% NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 14 0 0 0 0		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 14 0 0 0 0 0		Emulsified Water	scalar	*Visual	>0.1	NEG	<u></u> 0.2%	NEG
Boron ppm ASTM D5185m 14 0 0 0 0 0	FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	0
Barium ppm ASTM D5185m 0.0 0 0 0 0 0 0 0 0	The AN level is acceptable for this fluid. The condition of the oil is				14			
Molybdenum ppm ASTM D5185m 0.0 1 <1								
Manganese ppm ASTM D5185m 0.0 <1								
Magnesium ppm ASTM D5185m 2.6 4 0 0 Calcium ppm ASTM D5185m 49 141 68 76 Phosphorus ppm ASTM D5185m 354 357 384 415 Zinc ppm ASTM D5185m 419 463 490 505 Sulfur ppm ASTM D5185m 3719 1960 996 880 Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419		•						
Calcium ppm ASTM D5185m 49 141 68 76 Phosphorus ppm ASTM D5185m 354 357 384 415 Zinc ppm ASTM D5185m 419 463 490 505 Sulfur ppm ASTM D5185m 3719 1960 996 880 Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419								
Phosphorus ppm ASTM D5185m 354 357 384 415 Zinc ppm ASTM D5185m 419 463 490 505 Sulfur ppm ASTM D5185m 3719 1960 996 880 Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419		•				141	68	
Zinc ppm ASTM D5185m 419 463 490 505 Sulfur ppm ASTM D5185m 3719 1960 996 880 Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419				ASTM D5185m	354			
Sulfur ppm ASTM D5185m 3719 1960 996 880 Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419							490	
Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.424 0.419		Sulfur		ASTM D5185m	3719	1960	996	880
Visc @ 40°C		Acid Number (AN)	mg KOH/g	ASTM D8045			0.424	0.419
		Visc @ 40°C	cSt	ASTM D445	46	42.8	42.5	43.0





Certificate L2367

Report Id: VOLVO0093 [WUSCAR] 06088117 (Generated: 02/15/2024 12:07:48) Rev: 1

Laboratory Sample No.

: VCP421351 Lab Number : 06088117 Unique Number: 10875562 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 **Tested**

: 14 Feb 2024 : 15 Feb 2024 - Don Baldridge Diagnosed

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 8418 PALM RIVER ROAD

TAMPA, FL US 33619

Contact: KENNY HANEY khaney@flaglerce.com

T: (813)630-0077

F: (813)630-2233

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