

Machine Id



VOLVO ECR145 311293

Swing Drive GEAR OIL SAE 85W140 (--- GAL)

RECOMMENDATION

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The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0000448		
Sample Date		Client Info		08 Apr 2024		
Machine Age	hrs	Client Info		2913		
Oil Age	hrs	Client Info		1000		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron		ASTM D5185m	>1200	949		
Chromium	ppm	ASTM D5185m		949		
	ppm		>10	-		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	0.5	0		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>50	5 3		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>100	18		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.25	0.285		
ppm Water	ppm	ASTM D6304	>2500	A 2850		
Silt	scalar	*Visual	NONE	MODER		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
	scalar	*Visual	NORML	HAZY		
Appearance Odor	scalar	*Visual	NORML			
				NORML		
Emulsified Water	scalar	*Visual	>0.25	0.2%		
Sodium	ppm	ASTM D5185m		<1		
Boron	ppm	ASTM D5185m	400	<1		
Barium	ppm	ASTM D5185m	200	5		
Molybdenum	ppm	ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m		10		
Magnesium	ppm	ASTM D5185m	12	<1		
Calcium	ppm	ASTM D5185m	150	16		
Phosphorus	ppm	ASTM D5185m	1650	468		
Zinc	ppm	ASTM D5185m	125	62		
Sulfur	ppm	ASTM D5185m	22500	17884		
	1.1	20100111				

WEAR

The copper level is abnormal. All other component wear rates are normal.

CONTAMINATION

There is a light concentration of water present in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

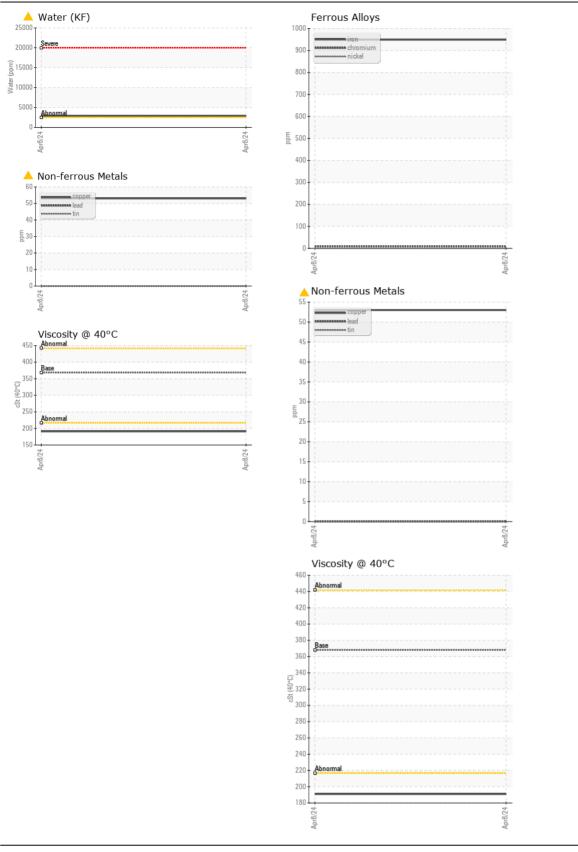
Contact/Location: JENNIFER MATIAS - VOLVO4589

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Visc @ 40°C

cSt

ASTM D445 368



MCCLUNG-LOGAN EQUIPMENT CO - WINCHESTER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ML0000448 Received **160 KENTMERE COURT** : 16 Apr 2024 Lab Number : 06150697 Tested WINCHESTER, VA : 18 Apr 2024 Unique Number : 10980775 : 18 Apr 2024 - Sean Felton US 22603 Diagnosed Test Package : CONST (Additional Tests: KF) Contact: JENNIFER MATIAS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jmatias@mcclung-logan.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (540)722-3700 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (540)722-4441

Contact/Location: JENNIFER MATIAS - VOLVO4589

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