



Area [730087 PADNOS] Machine Id VOLVO EC220D 210528 Component Swing Drive

VÕLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RE(COM	MEN	DAII	ON

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

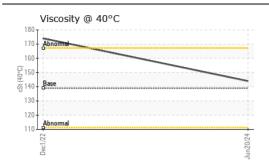
There is no indication of any contamination in the oil.

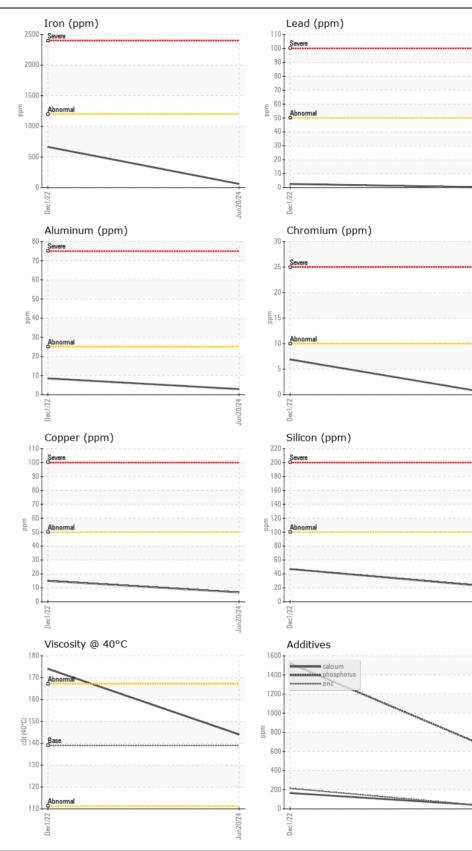
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP453546	VCP368704	
Sample Date		Client Info		20 Jun 2024	01 Dec 2022	
Machine Age	hrs	Client Info		11524	10304	
Oil Age	hrs	Client Info		1000	1200	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	SEVERE	
lron			. 1000	60	664	
Iron	ppm	ASTM D5185m	>1200	60	664	
Chromium	ppm	ASTM D5185m	>10	<1	7	
Nickel	ppm	ASTM D5185m	>10	<1	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	05	0	0	
Aluminum	ppm	ASTM D5185m	>25	3	8	
Lead	ppm	ASTM D5185m	>50	<1	3	
Copper	ppm	ASTM D5185m	>50	7	15	
Tin	ppm	ASTM D5185m	>10	0	3	
Vanadium	ppm	ASTM D5185m	NONE	0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>100	23	47	
Potassium	ppm	ASTM D5185m	>20	2	4	
	le le	ASTIVI DUTOUIII				
Water	le le	WC Method	>0.25	NEG	NEG	
Water Silt	scalar			NEG NONE		
		WC Method	>0.25	-	NEG	
Silt	scalar	WC Method *Visual	>0.25 NONE	NONE	NEG NONE	
Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.25 NONE NONE	NONE	NEG NONE	
Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.25 NONE NONE NONE	NONE LIGHT NONE	NEG NONE MODER NONE	
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.25 NONE NONE NONE NORML	NONE LIGHT NONE NORML	NEG NONE MODER NONE MILKY	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.25 NONE NONE NORML NORML	NONE LIGHT NONE NORML NORML	NEG NONE MODER NONE MILKY NORML 0.2%	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.25 NONE NONE NORML >0.25	NONE LIGHT NONE NORML NORML NEG 4	NEG NONE MODER NONE MILKY NORML 0.2%	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.25 NONE NONE NORML NORML	NONE LIGHT NONE NORML NORML	NEG NONE MODER NONE MILKY NORML 0.2%	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.25 NONE NONE NORML NORML >0.25	NONE LIGHT NONE NORML NEG 4 26	NEG NONE MODER NONE MILKY NORML 0.2% <1 101	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >0.25 NONE NORML NORML >0.25 379 0.0 	NONE LIGHT NORE NORML NEG 4 26 0	NEG NONE MODER NONE MILKY NORML 0.2%	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	 >0.25 NONE NONE NORML >0.25 379 0.0 0.8 	NONE LIGHT NONE NORML NEG 4 26 0 2	NEG NONE MODER NONE MILKY NORML 0.2% <1 101 0 3	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.25 NONE NORML NORML >0.25 379 0.0 0.8 0.0 	NONE LIGHT NONE NORML NEG 4 26 0 2 2 <1	NEG NONE MODER NONE MILKY NORML 0.2% <1 101 0 3 5	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.25 NONE NORML NORML >0.25 379 0.0 0.8 0.0 31 	NONE LIGHT NONE NORML NEG 4 26 0 2 2 <1 10	NEG NONE NONE NONE NILKY NORML 0.2% <1 101 0 3 5 25	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.25 NONE NONE NORML >0.25 379 0.0 0.8 0.0 31 38 	NONE LIGHT NORML NORML NEG 4 26 0 2 2 <1 10 37	NEG NONE MODER NONE NONE 0.2% <1 101 0 3 5 5 25 166	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >0.25 NONE NONE NORML >0.25 379 0.0 0.8 0.0 31 38 1077 	NONE LIGHT NONE NORML NEG 4 26 0 2 <1 10 37 673	NEG NONE NONE NONE NORML 0.2% <1 101 0 3 5 25 25 166 1521	

Contact/Location: PAUL ELZERMAN - VOLVO2990





ALTA EQUIPMENT COMPANY - METRO WEST Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 56195 PONTIAC TRAIL : VCP453546 : 27 Jun 2024 Lab Number : 06222593 Tested NEW HUDSON, MI : 01 Jul 2024 Unique Number : 11100790 : 01 Jul 2024 - Jonathan Hester US 48165 Diagnosed Test Package : MOB 1 Contact: PAUL ELZERMAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. paul.elzerman@altaequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (248)356-5200 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (248)356-2029

Contact/Location: PAUL ELZERMAN - VOLVO2990