

18852



## VOLVO EC480EL 311086

**Right Swing Drive** 

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0010021	ASC0008917	ASC0002999
	Sample Date		Client Info		19 Apr 2024	06 Feb 2024	06 Dec 2023
	Machine Age	hrs	Client Info		10181	9919	9584
	Oil Age	hrs	Client Info		500	500	320
	Filter Age	hrs	Client Info		0	500	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	Not Changd
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR				1000	404	074	100
WEAN	Iron	ppm	ASTM D5185m		181	374	168
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	3	1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	05	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		7	7	5
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m		10	NONE 12	NONE 7
				>100			
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m ASTM D5185m	>100	10	12	7
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>100 >20	10 0	12 0	7 <1
	Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>100 >20 >0.25	10 0 NEG	12 0 NEG	7 <1 NEG
	Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>100 >20 >0.25 NONE	10 0 NEG NONE	12 0 NEG NONE	7 <1 NEG NONE
	Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>100 >20 >0.25 NONE NONE	10 0 NEG NONE NONE	12 0 NEG NONE NONE	7 <1 NEG NONE NONE
	Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>100 >20 >0.25 NONE NONE NONE	10 0 NEG NONE NONE NONE	12 0 NEG NONE NONE NONE	7 <1 NEG NONE NONE NONE
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>100 >20 >0.25 NONE NONE NONE	10 0 NEG NONE NONE NONE NORML	12 0 NEG NONE NONE NONE NORML	7 <1 NEG NONE NONE NONE NORML
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 >0.25 NONE NONE NORE NORML	10 0 NEG NONE NONE NONE NORML NORML NEG	12 0 NEG NONE NONE NORM NORML NEG	7 <1 NEG NONE NONE NORML NORML NEG
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>100 >20 >0.25 NONE NONE NORML NORML >0.25	10 0 NEG NONE NONE NORML NORML NEG	12 0 NEG NONE NONE NORML NORML NEG	7 <1 NEG NONE NONE NORML NORML NEG 0
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>100 >20 >0.25 NONE NORME NORML >0.25	10 0 NEG NONE NONE NORML NORML NEG <1 182	12 0 NEG NONE NONE NORML NORML NEG <1 191	7 <1 NEG NONE NONE NONE NORML NORML NEG 0 181
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NONE NORML >0.25 111 0.0	10 0 NEG NONE NONE NORML NORML NEG <1 182 0	12 0 NEG NONE NONE NORML NORML NEG <1 191 0	7 <1 NEG NONE NONE NONE NORML NORML NEG 0 181 0
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NONE NORML NORML >0.25	10 0 NEG NONE NONE NORML NORML NEG <1 182 0 0	12 0 NEG NONE NONE NORML NORML NEG <1 191 0 0	7 <ul> <li>&lt;1</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>181</li> <li>0</li> <li>&lt;1</li> </ul>
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NORME NORML >0.25 111 0.0 0.9 0.9	10 0 NEG NONE NONE NORML NORML NEG <1 182 0 0 0 2	12 0 NEG NONE NONE NORML NORML NEG <1 191 0 0 3	7 <ul> <li>&lt;1</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>181</li> <li>0</li> <li>&lt;1</li> <li>1</li> </ul>
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NONE NORML NORML >0.25 111 0.0 0.9 0.0 39	10 0 NEG NONE NONE NORML NORML NEG <1 182 0 0 0 2 1	12 0 NEG NONE NONE NORML NORML NEG <1 191 0 0 3 2	7 <1 NEG NONE NONE NORML NORML NORML NEG 0 181 0 <1181 1 2
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NONE NORML NORML >0.25 1111 0.0 0.9 0.0 39 93	10 0 NEG NONE NONE NORML NORML NEG <1 182 0 0 2 1 2 1 56	12 0 NEG NONE NONE NORML NORML NEG <1 191 0 0 3 2 8	7 <1 NEG NONE NONE NORML NORML NEG 0 181 0 <11 1 2 10
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >0.25 NONE NORM NORM NORM >0.25 111 0.0 0.9 0.0 39 93 920	10 0 NEG NONE NONE NORML NORML NEG <1 182 0 0 0 2 1	12 0 NEG NONE NONE NORML NORML NEG <1 191 0 0 3 2	7 <ul> <li>&lt;1</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>181</li> <li>0</li> <li>&lt;1</li> <li>1</li> <li>2</li> </ul>

Sulfur

Visc @ 40°C

Contact/Location: Service Manager - HANERW

21931

165

31071

155

ASTM D5185m 20179

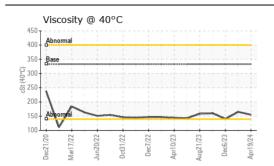
333

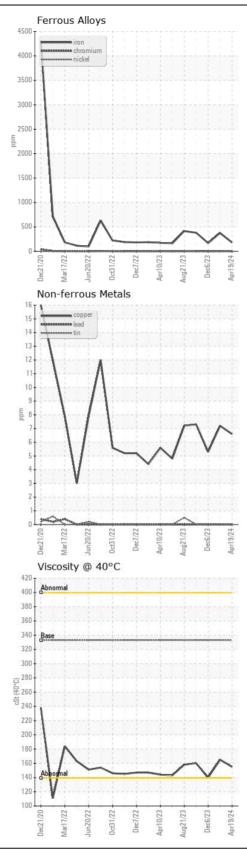
ASTM D445

ppm

cSt

140





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 HANSON SOUTHEAST Laboratory Sample No. : ASC0010021 Received : 23 Apr 2024 NC HWY 117 Lab Number : 06158134 Tested ERWIN, NC : 24 Apr 2024 Unique Number : 10993557 Diagnosed : 25 Apr 2024 - Don Baldridge US 28339 Test Package : CONST Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: \* - 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) F:

Contact/Location: Service Manager - HANERW Page 2 of 2