



VOLVO A40G 342177

Drop Box

[729036]

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil.

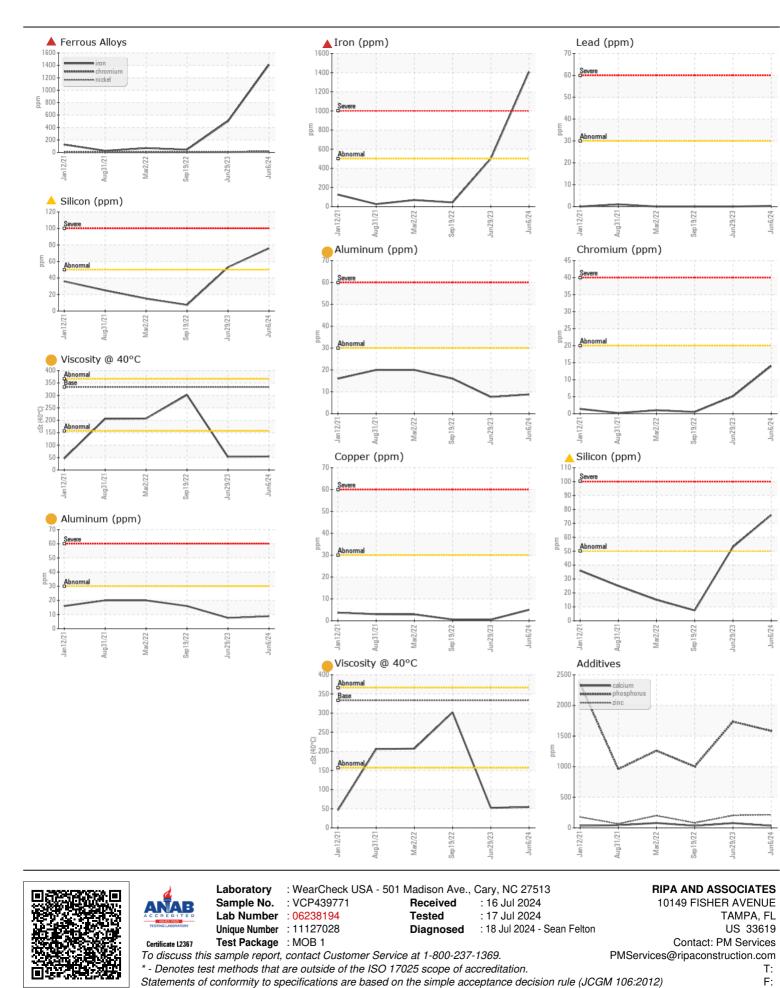
FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP439771	VCP424431	VCP358219
Sample Date		Client Info		06 Jun 2024	29 Jun 2023	19 Sep 2022
Machine Age	hrs	Client Info		11658	10619	9334
Oil Age	hrs	Client Info		3000	2000	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		 Not Change 	Not Changd	Not Change
Filter Changed		Client Info		Not Change	Changed	Not Changd
Sample Status				SEVERE	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>500	1408	4 501	43
Chromium	ppm	ASTM D5185m	>20	14	5	<1
Nickel	ppm	ASTM D5185m	>10	2	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	9	8	16
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>30	5	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal Silicon		*Visual ASTM D5185m	NONE >50	NONE 76	NONE	NONE 7
	scalar ppm ppm					
Silicon	ppm	ASTM D5185m	>50	^ 76	▲ 53	7
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>50 >20	▲ 76 3	▲ 53 0	7
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>50 >20 >0.2	▲ 76 3 NEG	 ▲ 53 0 NEG 	7 1 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>50 >20 >0.2 NONE	 76 3 NEG NONE 	 ▲ 53 0 NEG LIGHT 	7 1 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>50 >20 >0.2 NONE NONE	 76 3 NEG NONE MODER 	 53 0 NEG LIGHT 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	>50 >20 >0.2 NONE NONE NONE	 76 3 NEG NONE MODER NONE 	 53 0 NEG LIGHT NONE NONE 	7 1 NEG 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	>50 >20 >0.2 NONE NONE NONE NORML	 76 3 NEG NONE MODER NONE NORML 	 53 0 NEG LIGHT NONE NORML 	7 1 NEG NONE NONE NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>50 >20 >0.2 NONE NONE NONE NORML NORML	 76 3 NEG NONE MODER NOR NORML 	 53 0 NEG LIGHT NONE NONE NORML NORML 	7 1 NEG NONE NONE NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 >0.2 NONE NONE NONE NORML NORML	 76 3 NEG NONE MODER NORE NORML NORML NEG 	 53 0 NEG LIGHT NONE NONE NORML NEG 	7 1 NEG NONE NONE NORML NORML NEG
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	>50 >20 >0.2 NONE NONE NORML NORML >0.2	 76 3 NEG NONE NORML NORML NEG 1 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 	7 1 NEG NONE NONE NORML NORML NEG 0
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	>50 >20 >0.2 NONE NORME NORML >0.2	 76 3 NEG NONE MODER NORML NORML NORML NEG 1 111 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 129 	7 1 NEG NONE NONE NORML NORML NEG 0 184
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	>50 >20 >0.2 NONE NONE NORML NORML >0.2	 76 3 NEG NONE MODER NORML NORML NEG 1 111 0 	 53 0 NEG LIGHT NONE NORML NORML NORML NEG <1 129 0 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20 >0.2 NONE NORML NORML >0.2 1111 0.0	 76 3 NEG MODER NONE NORML NORML NEG 1 111 0 4 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 129 0 3 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0 4
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20 >0.2 NONE NONE NORML >0.2 1111 0.0 0.9 0.0	 76 3 NEG NONE MODER NORML NORML NORML NEG 1 111 0 4 12 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 129 0 3 6 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0 4 2
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	>50 >20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39	 76 3 NEG NONE MODER NORML NORML NEG 1 111 0 4 12 2 	 53 0 NEG LIGHT NONE NORML NORML NEG <11 129 0 3 6 2 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0 4 2 2 6
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 ASTM D5185m	>50 >20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93	 76 3 NEG MODER NORML NORML NORML NEG 1 111 0 4 12 2 34 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 129 0 3 6 2 78 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0 4 2 2 6 34
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >50 >20 >0.2 NONE NORMI NORMI >0.2 111 0.0 0.9 0.0 39 93 920 	 76 3 NEG NONE MODER NORML NORML NORML NEG 111 0 4 12 2 34 1582 	 53 0 NEG LIGHT NONE NORML NORML NEG <1 129 0 3 6 2 78 1735 	7 1 NEG NONE NONE NORML NORML NEG 0 184 0 184 0 4 2 2 6 34 1001

Contact/Location: PM Services ? - RIPTAM



Contact/Location: PM Services ? - RIPTAM Page 2 of 2