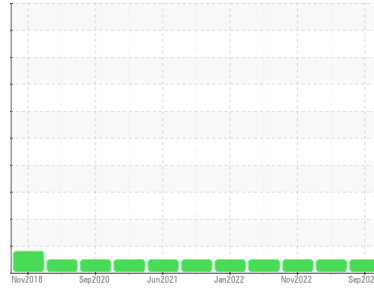




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Auxiliary Equipment**  
 Machine Id  
**PS PTO (S/N YDZ592C200536)**  
 Component  
**Port Power Take Off**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (7 LTR)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC</b>	WC	WC
Sample Date	Client Info	<b>25 Sep 2023</b>	16 May 2023	07 Nov 2022
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >200	<b>22</b>	16	21
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >50	<b>1</b>	<1	<1
Lead	ppm ASTM D5185(m) >50	<b>0</b>	<1	0
Copper	ppm ASTM D5185(m) >200	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185(m) >10	<b>0</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 379	<b>40</b>	43	38
Barium	ppm ASTM D5185(m) 0.0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0.8	<b>0</b>	<1	1
Manganese	ppm ASTM D5185(m) 0.0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 31	<b>8</b>	7	9
Calcium	ppm ASTM D5185(m) 38	<b>20</b>	13	35
Phosphorus	ppm ASTM D5185(m) 1077	<b>461</b>	514	547
Zinc	ppm ASTM D5185(m) 46	<b>18</b>	14	26
Sulfur	ppm ASTM D5185(m) 23526	<b>16343</b>	16650	15931
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

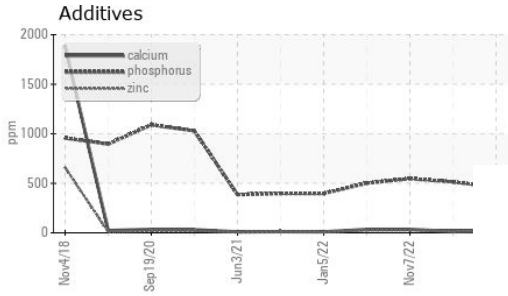
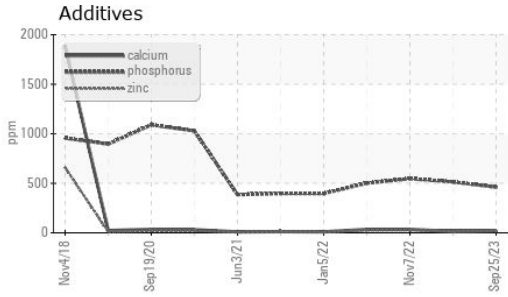
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>10</b>	9	7
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	1
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	0	<1

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual* >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*	<b>NEG</b>	NEG	NEG

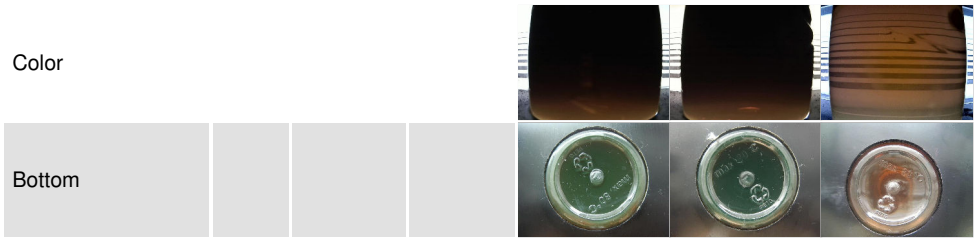


# OIL ANALYSIS REPORT

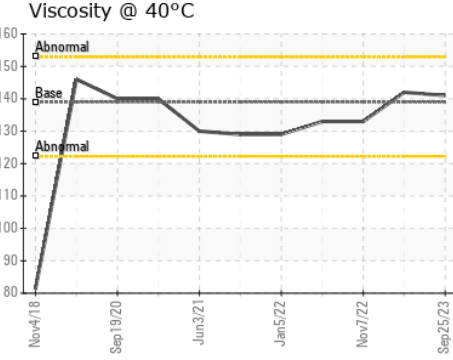
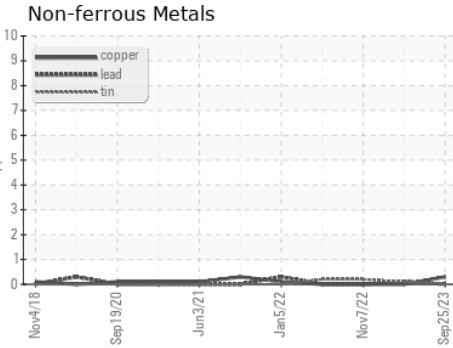
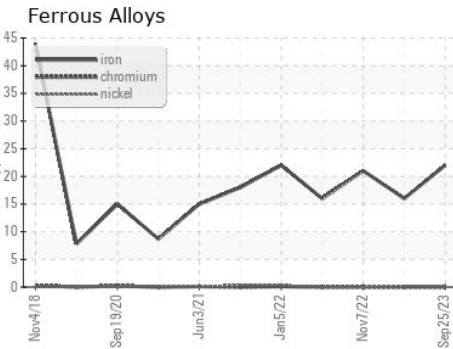


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	139	<b>141</b>	142	133

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC  
**Lab Number** : 02587218  
**Unique Number** : 5656284  
**Test Package** : MAR 1

**Canadian Coast Guard**  
 CCGS Pennant Bay, 72 West Street  
 St. John's, NL  
 CA A0K 4S0  
 Contact: Marc Cull  
 pennantbay@ccgs-ngcc.gc.ca  
 T: (709)454-2207  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.