



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HL5632 After Fuel Oil Purifier**  
 Component  
**Lube System**  
 Fluid  
**ESSO NUTO H ISO 68 (4 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0807853</b>	WC0552069	WC66002542
Sample Date		Client Info		<b>25 May 2023</b>	31 May 2021	09 May 2018
Machine Age	hrs	Client Info		<b>0</b>	4316	12334
Oil Age	hrs	Client Info		<b>0</b>	316	828
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	▲ 200
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	3
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	3
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	▲ 80
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	▲ 10
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

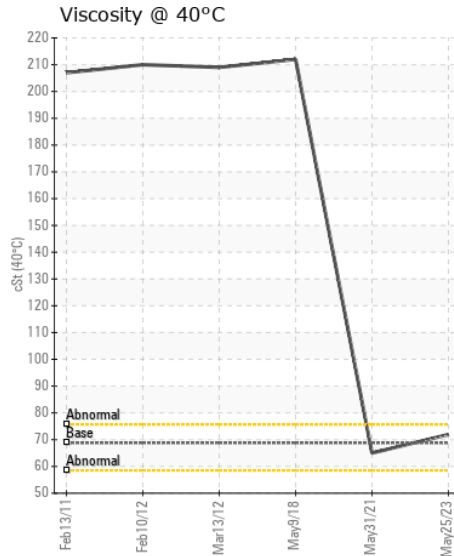
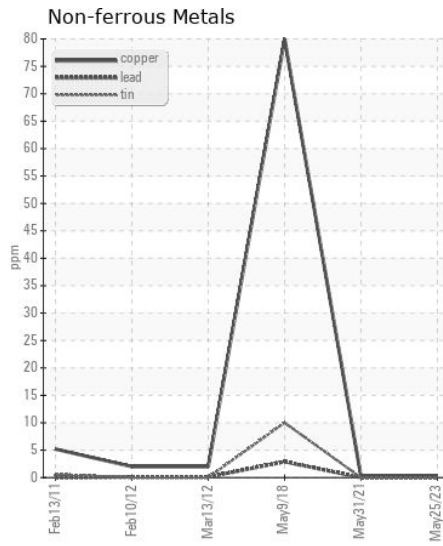
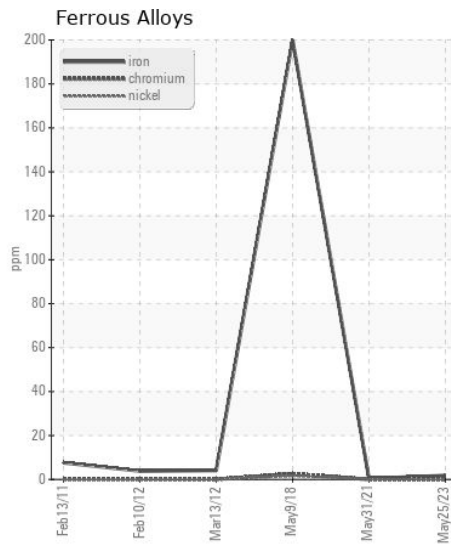
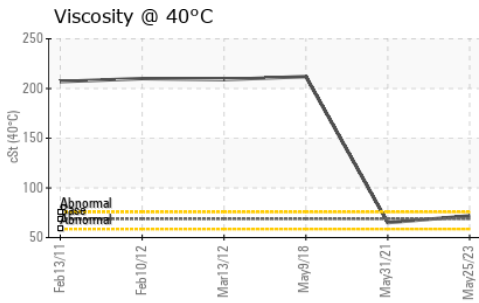
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	1	12
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
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*	>0.05	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	11
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	2
Magnesium	ppm	ASTM D5185(m)	5	<b>0</b>	<1	1
Calcium	ppm	ASTM D5185(m)	50	<b>56</b>	52	29
Phosphorus	ppm	ASTM D5185(m)	330	<b>406</b>	357	264
Zinc	ppm	ASTM D5185(m)	420	<b>466</b>	462	12
Sulfur	ppm	ASTM D5185(m)	3100	<b>7364</b>	7290	6291
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	<b>71.9</b>	65.0	212



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0807853  
**Lab Number** : 02560218  
**Unique Number** : 5581258  
**Test Package** : MAR 1  
**Received** : 29 May 2023  
**Tested** : 29 May 2023  
**Diagnosed** : 29 May 2023 - Wes Davis

**CANADIAN COAST GUARD**  
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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.