



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HL5734 Standby Lubricating Oil Purifier
 Component
Lube System
 Fluid
ESSO NUTO H ISO 68 (4 LTR)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt.

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

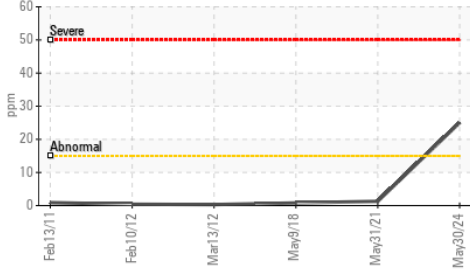
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0929734	WC0552065	WC66002547
Sample Date		Client Info		30 May 2024	31 May 2021	09 May 2018
Machine Age	hrs	Client Info		3461	839	2619
Oil Age	hrs	Client Info		139	839	246
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		None	N/A	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL

Iron	ppm	ASTM D5185(m)	>20	<1	3	24
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	17	1
Copper	ppm	ASTM D5185(m)	>20	6	22	25
Tin	ppm	ASTM D5185(m)	>10	0	0	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

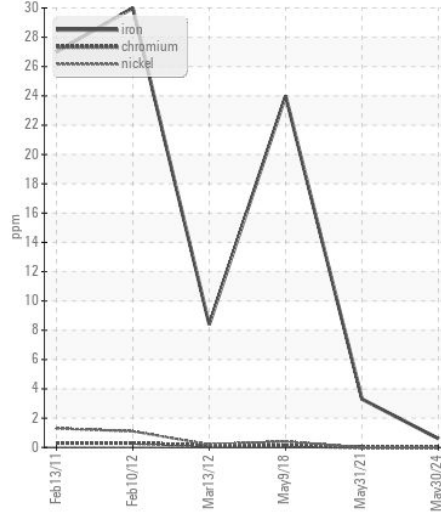
Silicon	ppm	ASTM D5185(m)	>15	▲ 25	1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		<1	3	<1
Boron	ppm	ASTM D5185(m)	0	<1	<1	6
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	2	<1
Magnesium	ppm	ASTM D5185(m)	5	<1	1	<1
Calcium	ppm	ASTM D5185(m)	50	51	47	16
Phosphorus	ppm	ASTM D5185(m)	330	372	348	271
Zinc	ppm	ASTM D5185(m)	420	454	411	16
Sulfur	ppm	ASTM D5185(m)	3100	7122	6704	6886
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	67.5	68.6	214

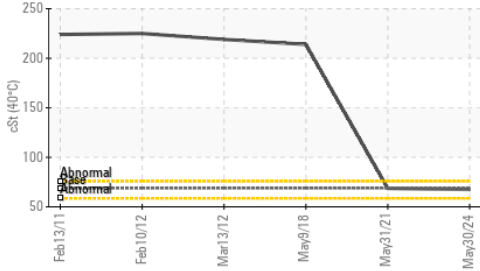
▲ Silicon (ppm)



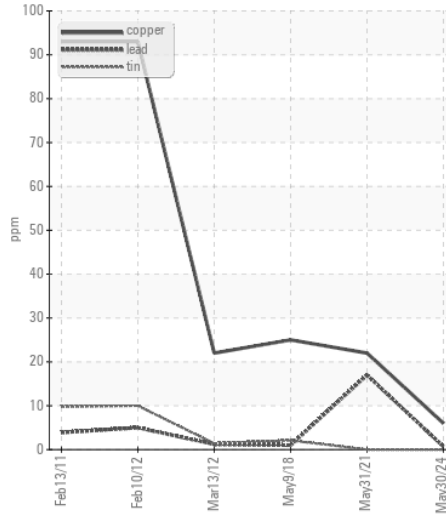
Ferrous Alloys



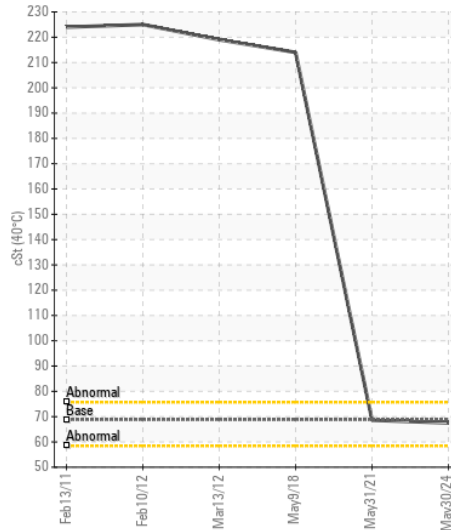
Viscosity @ 40°C



Non-ferrous Metals



Viscosity @ 40°C



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0929734
Lab Number : 02639989
Unique Number : 5789151
Test Package : MAR 1

Received : 05 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 Jun 2024 - Kevin Marson

CANADIAN COAST GUARD
 CCGS HENRY LARSEN, P.O. BOX 5667, 280 SOUTHSIDE RD.
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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.