



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
SWEPLINE LIFTING

Component
Starboard Winch

Fluid
PETRO CANADA ENDURATEX EP 150 (1 LTR)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0761450	---	---
Sample Date		Client Info		02 Jul 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		None	---	---
Sample Status				ABNORMAL	---	---

WEAR

Iron ppm levels are abnormal.

PQ		ASTM D8184*		72	---	---
Iron	ppm	ASTM D5185(m)	>30	▲ 60	---	---
Chromium	ppm	ASTM D5185(m)	>2	2	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	<1	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	1	---	---
Lead	ppm	ASTM D5185(m)	>70	<1	---	---
Copper	ppm	ASTM D5185(m)	>65	7	---	---
Tin	ppm	ASTM D5185(m)	>9	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

Lithium (Li) level abnormal 28ppm., indicates possible grease contamination.

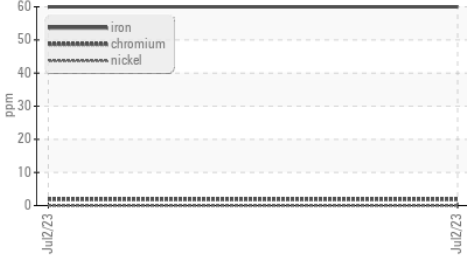
Silicon	ppm	ASTM D5185(m)	>30	4	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185(m)		5	---	---
Boron	ppm	ASTM D5185(m)	55	14	---	---
Barium	ppm	ASTM D5185(m)	0	3	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	---	---
Manganese	ppm	ASTM D5185(m)	0	2	---	---
Magnesium	ppm	ASTM D5185(m)	2	4	---	---
Calcium	ppm	ASTM D5185(m)	6	10	---	---
Phosphorus	ppm	ASTM D5185(m)	250	1099	---	---
Zinc	ppm	ASTM D5185(m)	3	300	---	---
Sulfur	ppm	ASTM D5185(m)	7500	15913	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	150.0	152	---	---

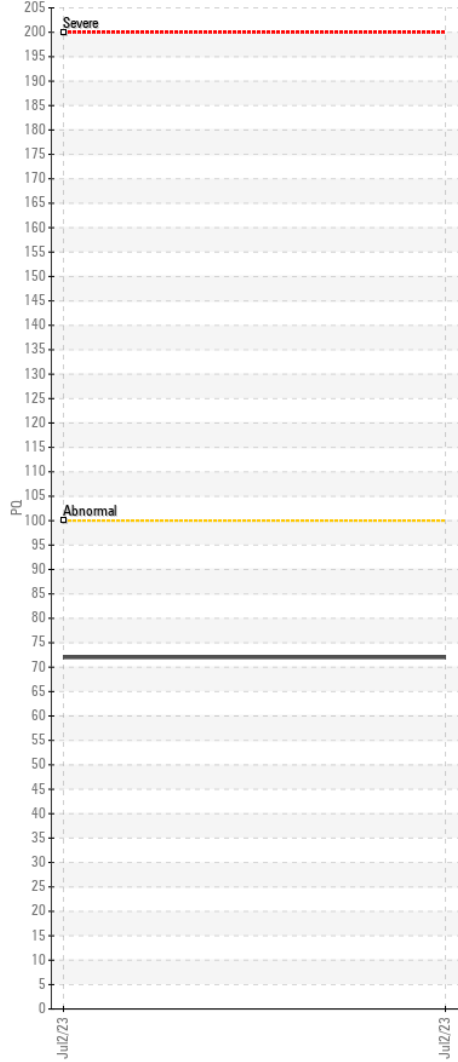
▲ Ferrous Alloys



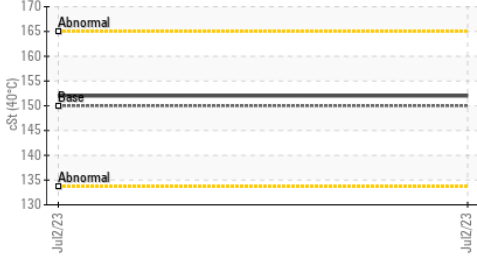
▲ Ferrous Alloys



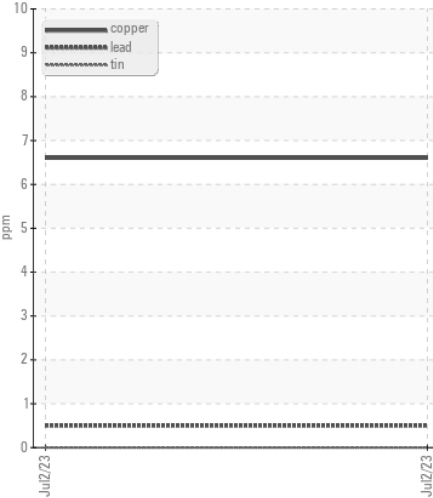
PQ



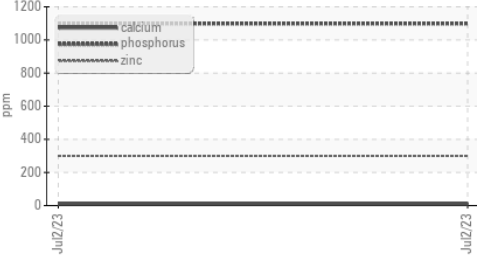
Viscosity @ 40°C



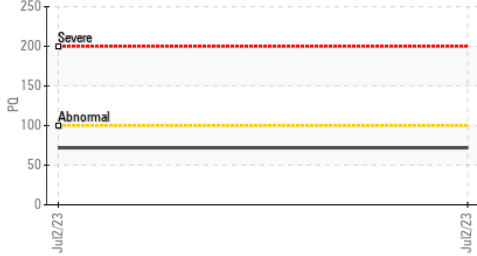
Non-ferrous Metals



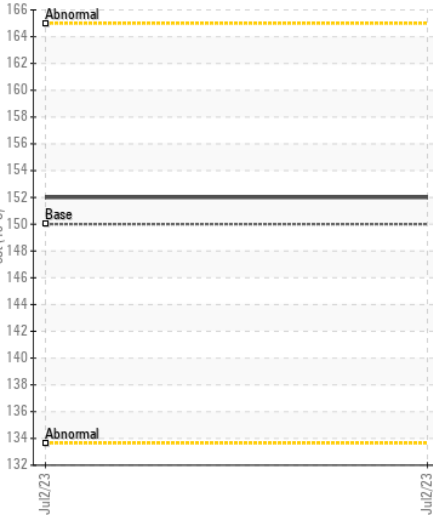
Additives



PQ



Viscosity @ 40°C



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0761450
Lab Number : 02570248
Unique Number : 5607294
Test Package : MAR 1 (Additional Tests: PQ)

Canadian Coast Guard - John Cabot
 280 Southside Road
 St. John's, NL
 CA A1E 0A3
 Contact: Santana Crant
 johncabotse@ccgs-ngcc.gc.ca

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.