



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area

Main Deck

Machine Id

ARVA Crane Slewing Motor

Component

Starboard Oil

Fluid

PETRO CANADA TRAXON 80W90 (6 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC62004199	---	---
Sample Date		Client Info		24 May 2011	---	---
Machine Age	hrs	Client Info		843	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)		228	---	---
Chromium	ppm	ASTM D5185(m)		2	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		<1	---	---
Aluminum	ppm	ASTM D5185(m)		0	---	---
Lead	ppm	ASTM D5185(m)		3	---	---
Copper	ppm	ASTM D5185(m)		4	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

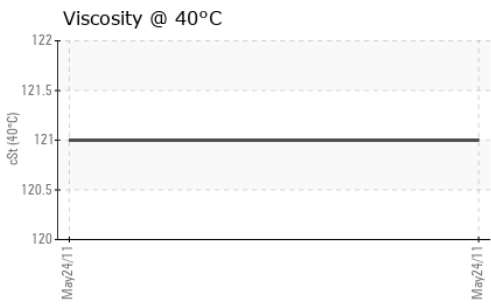
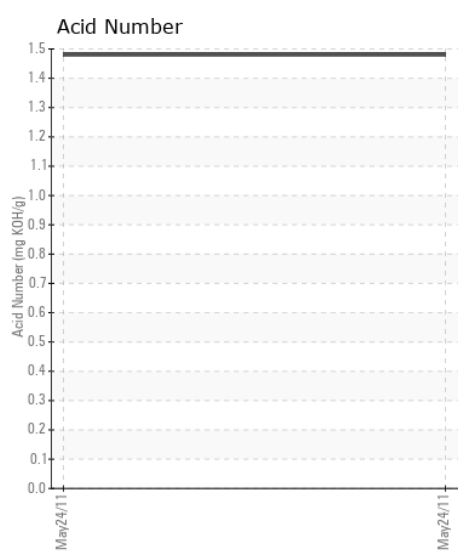
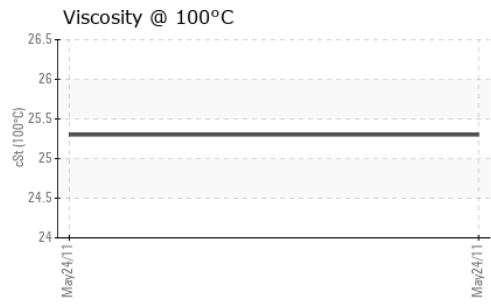
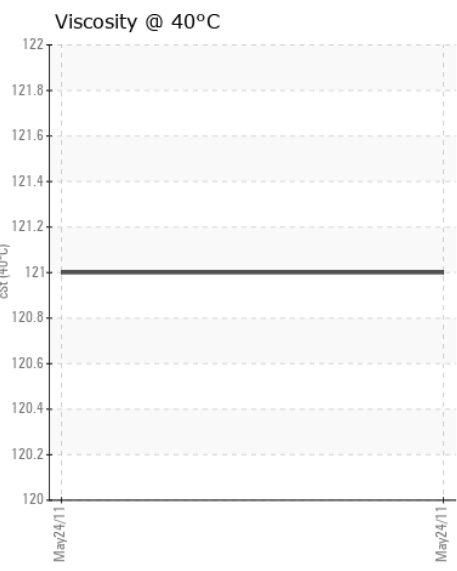
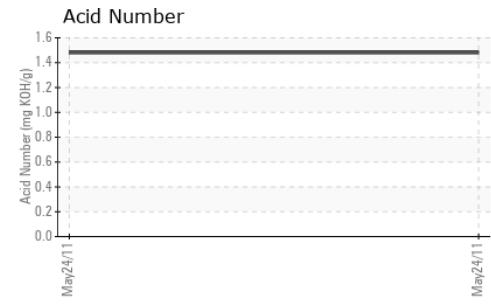
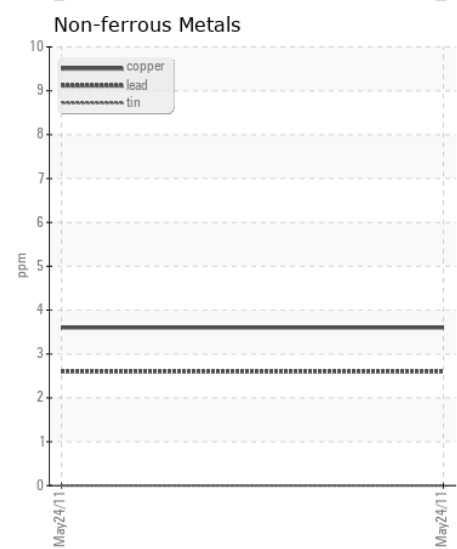
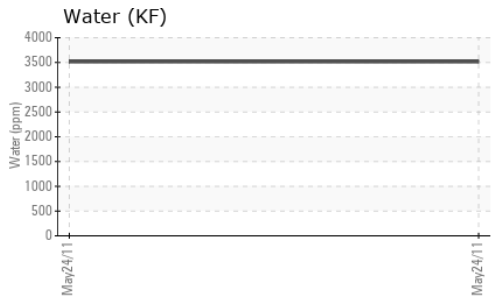
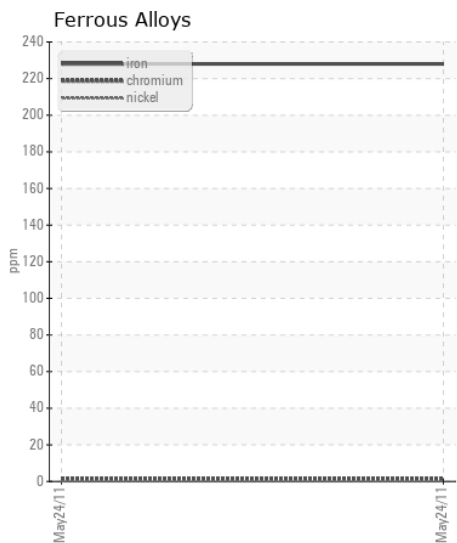
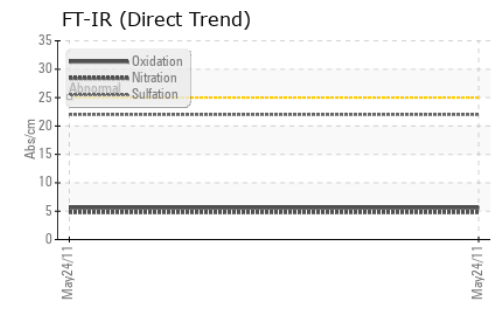
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185(m)		5	---	---
Potassium	ppm	ASTM D5185(m)		1	---	---
Water	%	ASTM D6304*		▲ 0.351	---	---
ppm Water	ppm	ASTM D6304*		▲ 3514.9	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		4.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*		22.0	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		▲ 1%	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		0	---	---
Boron	ppm	ASTM D5185(m)		79	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		<1	---	---
Manganese	ppm	ASTM D5185(m)		4	---	---
Magnesium	ppm	ASTM D5185(m)		1	---	---
Calcium	ppm	ASTM D5185(m)		17	---	---
Phosphorus	ppm	ASTM D5185(m)		884	---	---
Zinc	ppm	ASTM D5185(m)		0	---	---
Sulfur	ppm	ASTM D5185(m)		19147	---	---
Oxidation	Abs/.1mm	ASTM D7414*		5.6	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		1.48	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		121	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		● 25.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		244	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC62004199
Lab Number : 01690677
Unique Number : 3331947
Test Package : MAR 2 (Additional Tests: FT-IR, KF, KV100, VI)

CANADIAN COAST GUARD
 CCGS GRIFFON, PO BOX 1000, 401 KING ST.W
 Prescott, ON
 CA K6V 5T3
 Contact: Laurie Bosley
 Laurie.Bosley@dfo-mpo.gc.ca
 T:
 F: (519)383-1994

*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.*