



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
City Of Mount Pearl
 Machine Id
INTERNATIONAL Salter/Dump, 21-17D
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 32 (239 LTR)

RECOMMENDATION

The filter 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		OF0000250	OF0000260	---
Sample Date		Client Info		30 May 2022	11 Mar 2022	---
Machine Age	hrs	Client Info		449	449	---
Oil Age	hrs	Client Info		449	364	---
Filter Age	hrs	Client Info		84	364	---
Oil Changed		Client Info		Not Chngd	Not Chngd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	2	2	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)		<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	---
Lead	ppm	ASTM D5185(m)	>10	<1	<1	---
Copper	ppm	ASTM D5185(m)	>75	<1	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

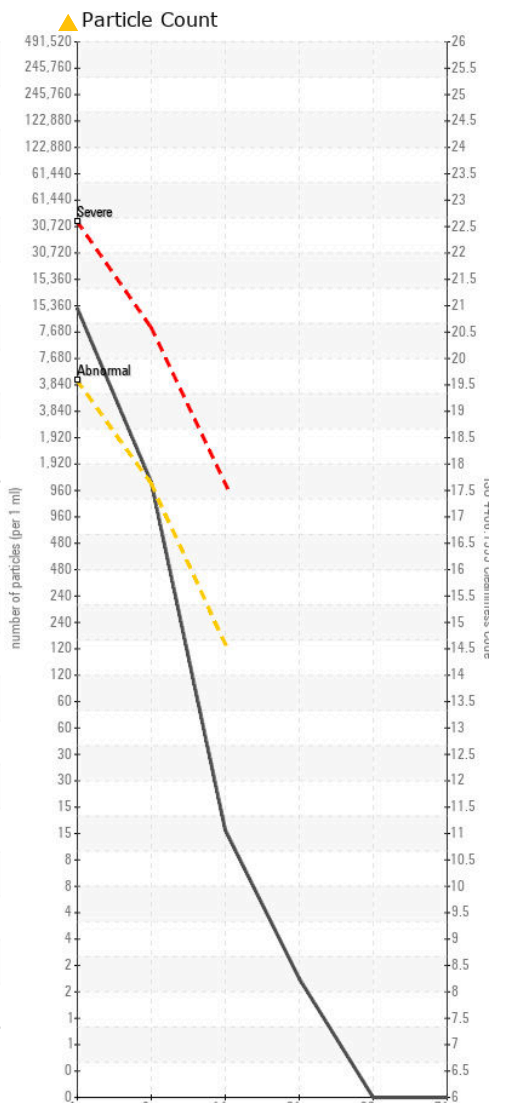
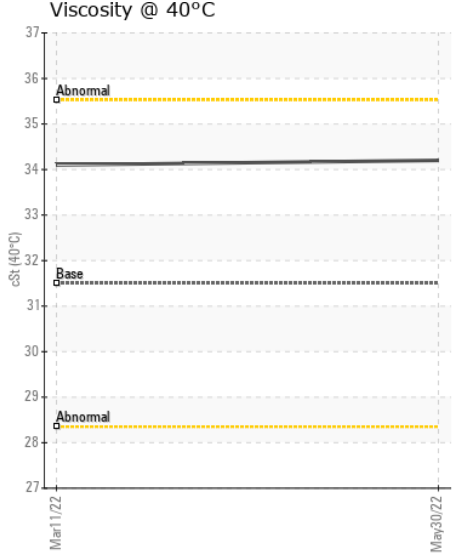
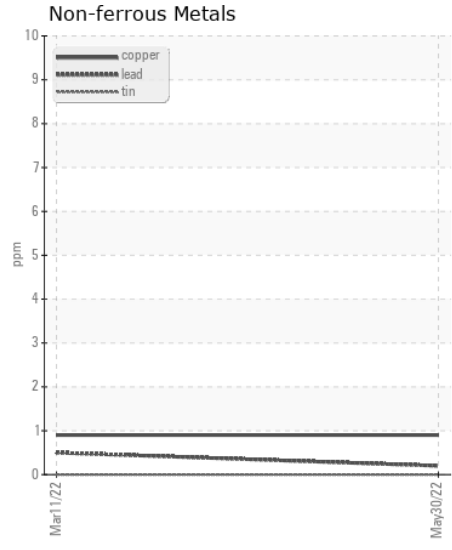
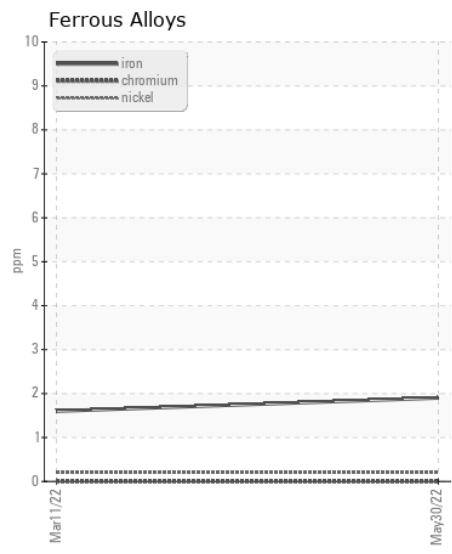
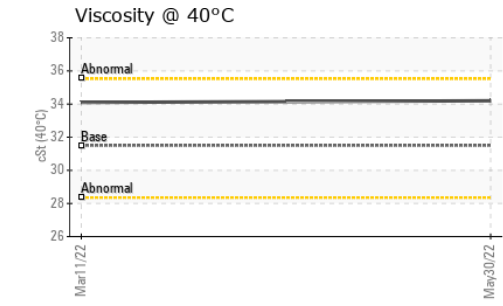
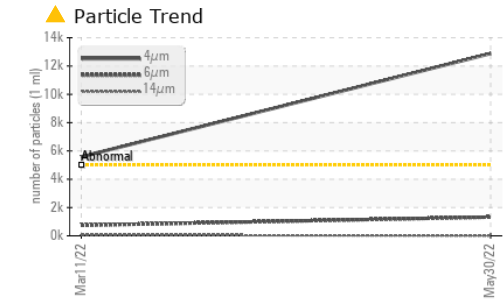
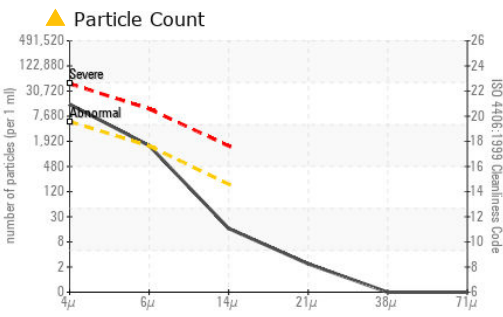
Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are notably high.

Silicon	ppm	ASTM D5185(m)	>20	2	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 12883	● 5580	---
Particles >6µm		ASTM D7647	>1300	● 1324	744	---
Particles >14µm		ASTM D7647	>160	14	59	---
Particles >21µm		ASTM D7647	>40	2	16	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/11	● 20/17/13	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<1	<1	---
Boron	ppm	ASTM D5185(m)	0	5	5	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	2	3	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	0	48	49	---
Calcium	ppm	ASTM D5185(m)	50	135	136	---
Phosphorus	ppm	ASTM D5185(m)	330	349	352	---
Zinc	ppm	ASTM D5185(m)	430	379	383	---
Sulfur	ppm	ASTM D5185(m)	760	1444	1447	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	34.2	34.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000250 **Received** : 13 Jun 2022
Lab Number : 02494481 **Tested** : 14 Jun 2022
Unique Number : 5411440 **Diagnosed** : 14 Jun 2022 - Wes Davis
Test Package : MOB 2

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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.