



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
(GMK 163) City Of Mount Pearl
Machine Id
INTERNATIONAL Vacuum Truck, 1532
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (228 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Serial # 3HAEKART1ML680957)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000326	OF0000244	---
Sample Date		Client Info		30 Mar 2021	04 Jan 2021	---
Machine Age	hrs	Client Info		4508	4465	---
Oil Age	hrs	Client Info		1159	1116	---
Filter Age	hrs	Client Info		43	1116	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	3	3	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)		<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	---
Lead	ppm	ASTM D5185(m)	>10	<1	<1	---
Copper	ppm	ASTM D5185(m)	>75	2	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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

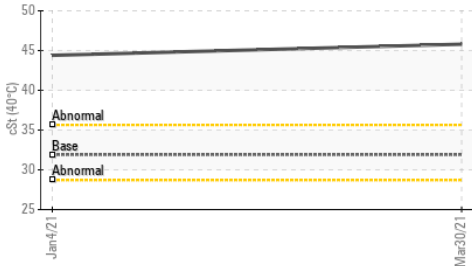
Silicon	ppm	ASTM D5185(m)	>20	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	1428	5865	---
Particles >6µm		ASTM D7647	>1300	135	1127	---
Particles >14µm		ASTM D7647	>160	9	100	---
Particles >21µm		ASTM D7647	>40	3	19	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/14/10	20/17/14	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
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

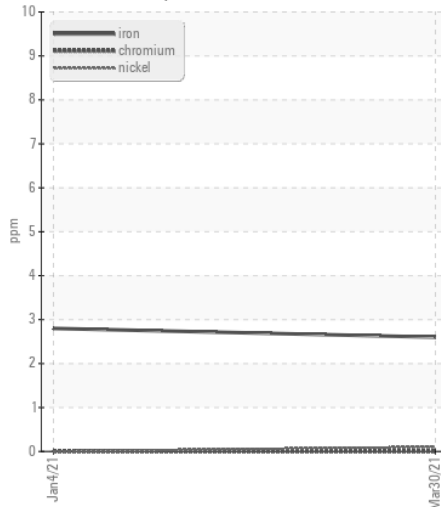
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		0	0	---
Boron	ppm	ASTM D5185(m)	0	<1	1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	---
Manganese	ppm	ASTM D5185(m)	1	0	0	---
Magnesium	ppm	ASTM D5185(m)	0	9	9	---
Calcium	ppm	ASTM D5185(m)	50	37	38	---
Phosphorus	ppm	ASTM D5185(m)	330	262	257	---
Zinc	ppm	ASTM D5185(m)	430	281	280	---
Sulfur	ppm	ASTM D5185(m)	760	3565	3542	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	45.8	44.4	---

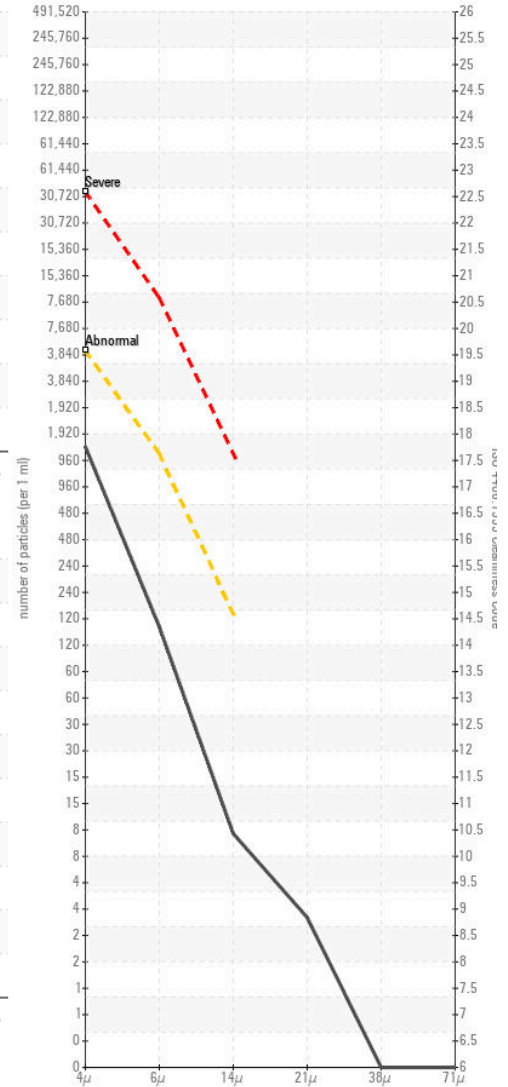
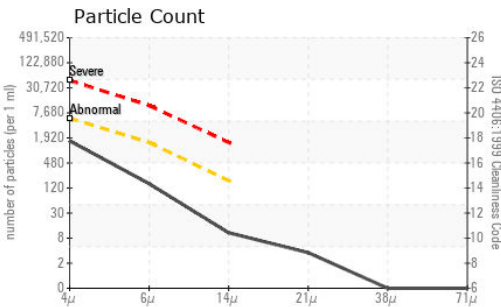
▲ Viscosity @ 40°C



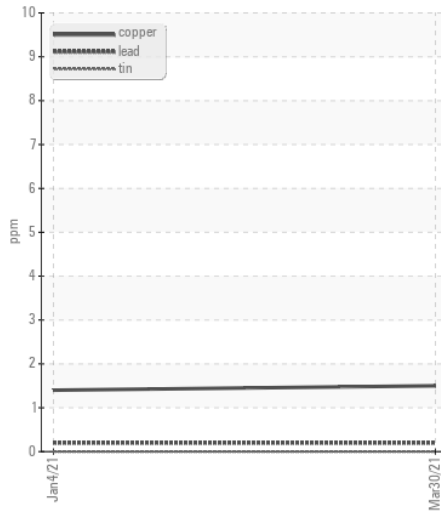
Ferrous Alloys



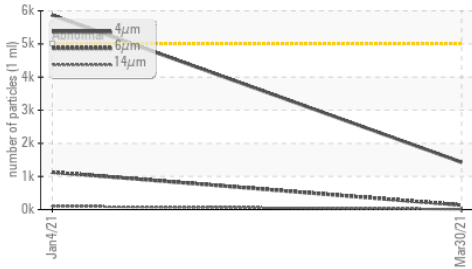
Particle Count



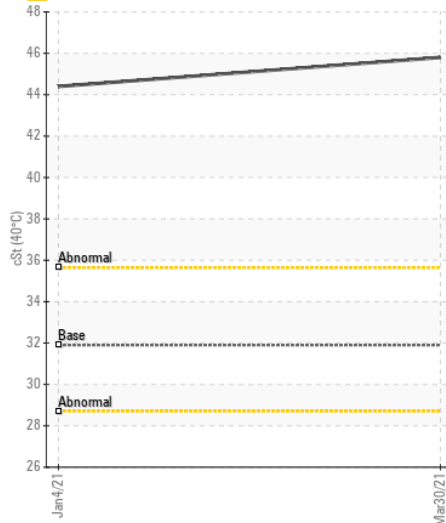
Non-ferrous Metals



Particle Trend



▲ Viscosity @ 40°C



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000326
Lab Number : 02476327
Unique Number : 5369255
Test Package : MOB 2
Received : 09 Mar 2022
Tested : 10 Mar 2022
Diagnosed : 10 Mar 2022 - Kevin Marson

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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.