



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
(GMN 111) City Of Mount Pearl
Machine Id
INTERNATIONAL Side Loader Recycling Truck, 20-02G
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000462	OF0000317	OF0000330
Sample Date		Client Info		23 Jan 2023	28 Feb 2022	18 Oct 2021
Machine Age	hrs	Client Info		2746	1882	1277
Oil Age	hrs	Client Info		2101	1237	643
Filter Age	hrs	Client Info		864	605	163
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	32	14	11
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	3	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

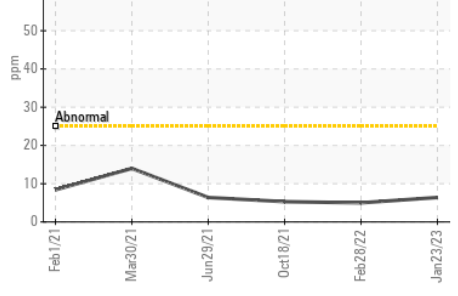
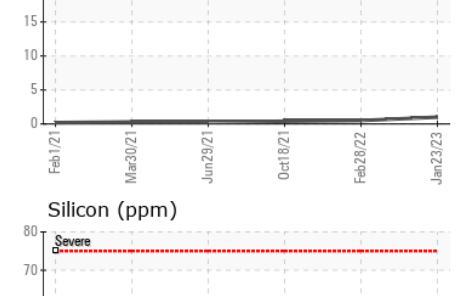
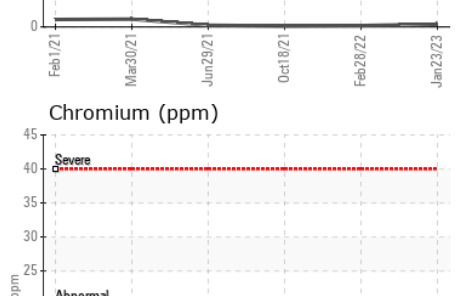
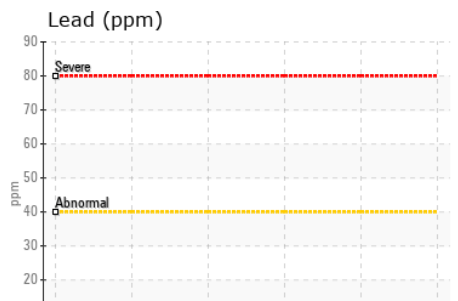
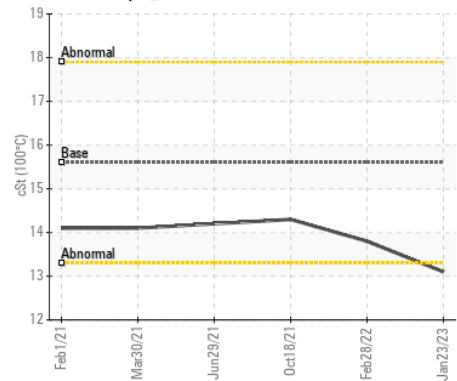
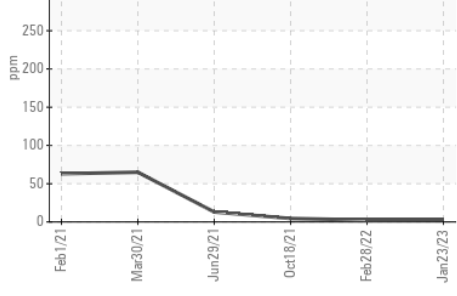
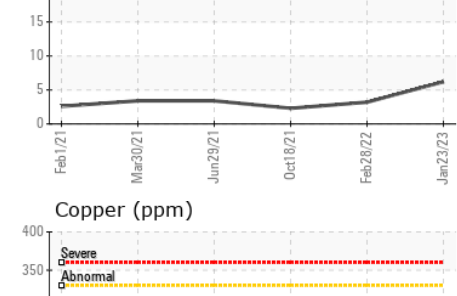
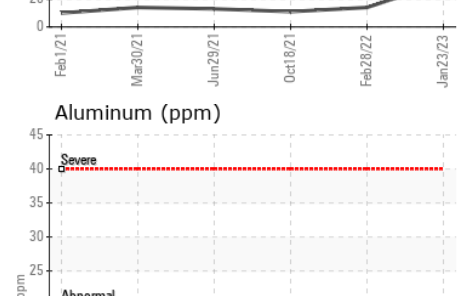
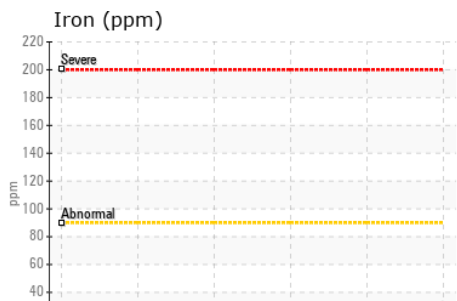
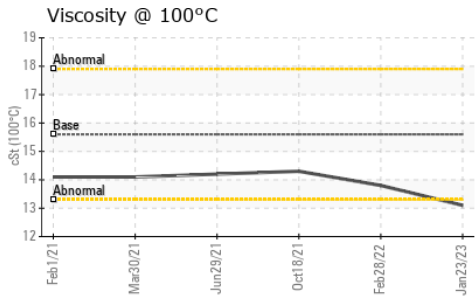
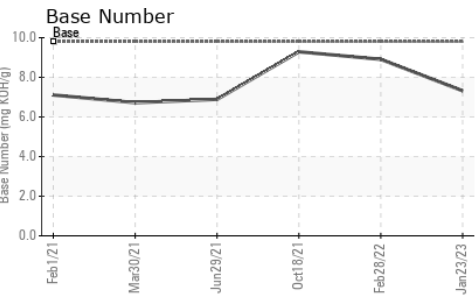
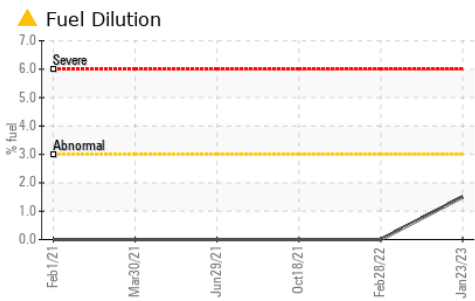
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel	%	ASTM D7593*	>3.0	▲ 1.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.6	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	11.2	3.8	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	14.2	19.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		3	2	2
Boron	ppm	ASTM D5185(m)	0	1	2	7
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	57	49
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	940	965	821
Calcium	ppm	ASTM D5185(m)	1070	1046	1080	1223
Phosphorus	ppm	ASTM D5185(m)	1150	954	1078	1065
Zinc	ppm	ASTM D5185(m)	1270	1177	1266	1206
Sulfur	ppm	ASTM D5185(m)	2060	2445	2666	2726
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	5.9	14.3
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	7.32	8.91	9.29
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.1	13.8	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000462 **Received** : 06 Oct 2023
Lab Number : 02587431 **Tested** : 13 Oct 2023
Unique Number : 5656497 **Diagnosed** : 13 Oct 2023 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Oil Filtration Solutions Ltd.
 PO BOX 16125
 CONCEPTION BAY SOUTH, NL
 CA A1X 2E2
 Contact: BILL BUTLER
 BBUTLER@OILFILTRATIONSOLUTIONS.COM
 T: (709)834-8433
 F: (709)834-8435

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.