



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Area

[97623013]

Machine Id

Hatz 11561731

Component

Front Diesel Engine

Fluid

SAE 5W40 (2 LTR)

## RECOMMENDATION

We advise that you check the fuel injection system. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. ( Customer Sample Comment: Oil Level High )

## WEAR

All component wear rates are normal.

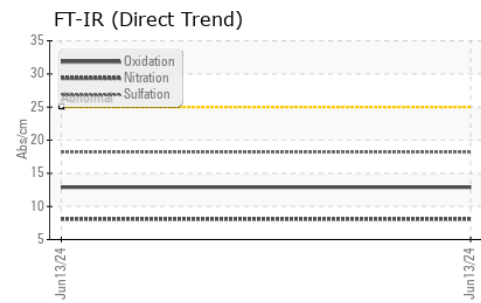
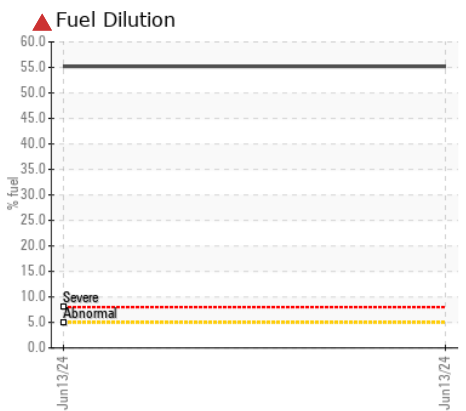
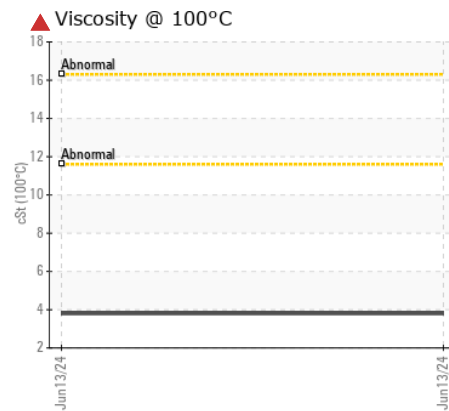
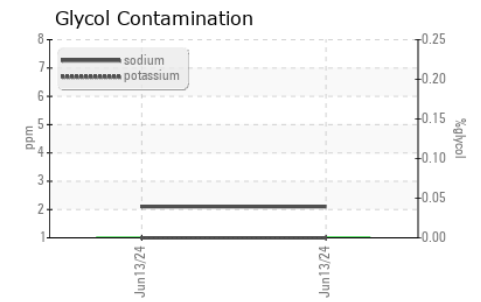
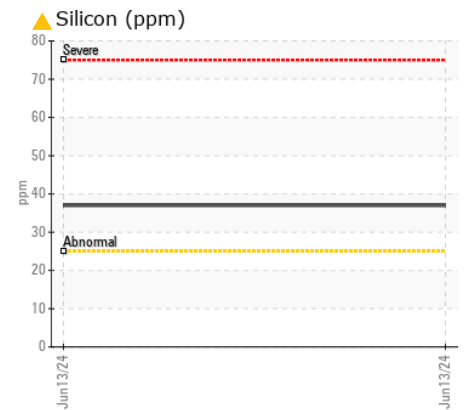
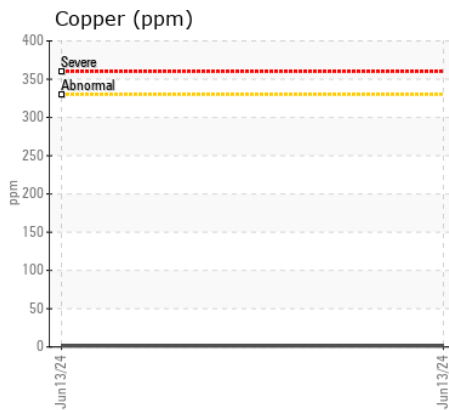
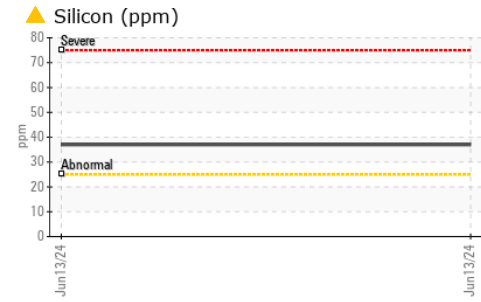
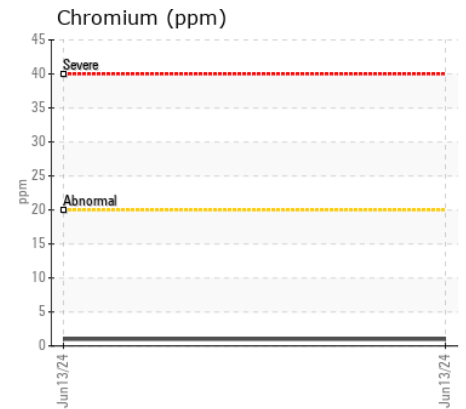
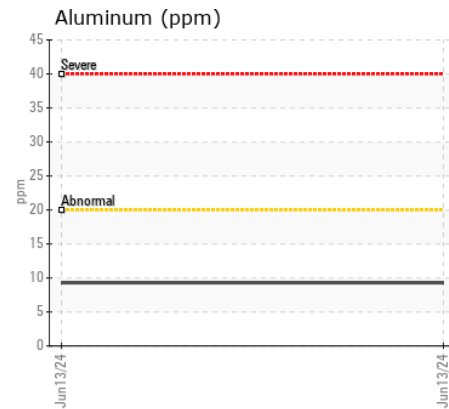
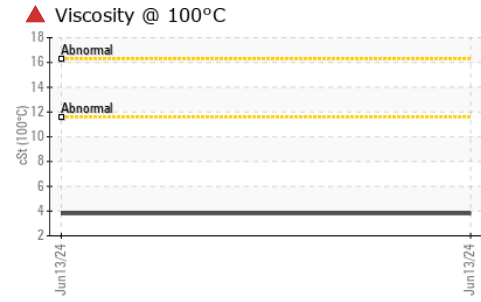
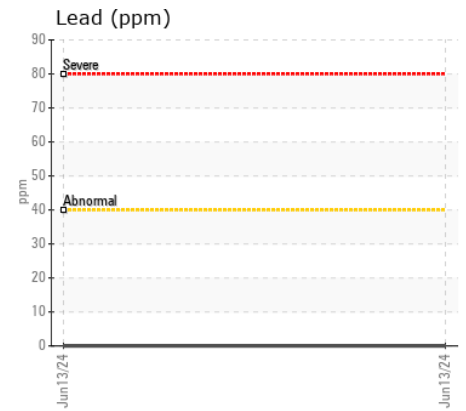
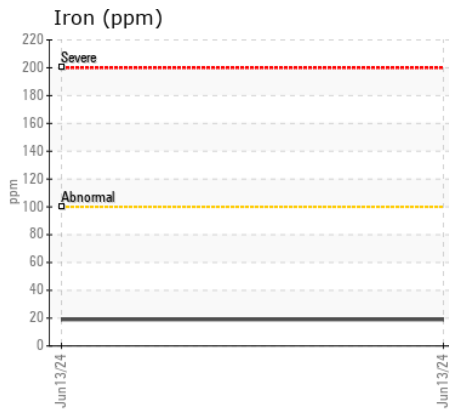
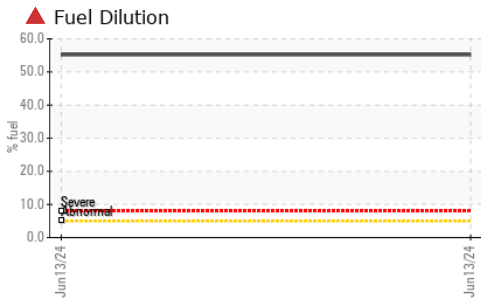
## CONTAMINATION

There is a high amount of fuel present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. Tests confirm the presence of fuel in the oil.

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0866078	---	---
Sample Date		Client Info		13 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		71	---	---
Filter Age	hrs	Client Info		71	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>100	19	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	9	---	---
Lead	ppm	ASTM D5185(m)	>40	0	---	---
Copper	ppm	ASTM D5185(m)	>330	2	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>25	▲ 37	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel	%	ASTM D7593*	>5	▲ 55.2	---	---
Water	%	ASTM D6304*	>0.2	0.068	---	---
ppm Water	ppm	ASTM D6304*	>2000	685	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.2	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)		207	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		23	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)		7	---	---
Calcium	ppm	ASTM D5185(m)		1932	---	---
Phosphorus	ppm	ASTM D5185(m)		518	---	---
Zinc	ppm	ASTM D5185(m)		575	---	---
Sulfur	ppm	ASTM D5185(m)		2430	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		▲ 3.8	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866078 **Received** : 17 Jun 2024  
**Lab Number** : 02642284 **Tested** : 18 Jun 2024  
**Unique Number** : 5799823 **Diagnosed** : 19 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel )

**BPT COMPONENTS & PARTS INC.**  
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 T: (905)670-7667  
 F:

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.