

Machine Id  
**HITACHI 3041**  
Component  
**Diesel Engine**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 0W40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

**WEAR**

All component wear rates are normal.

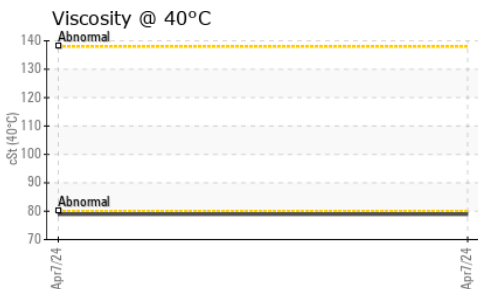
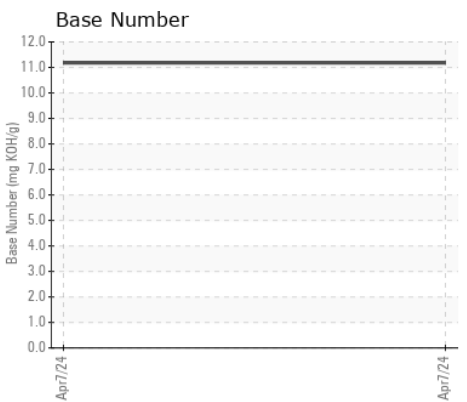
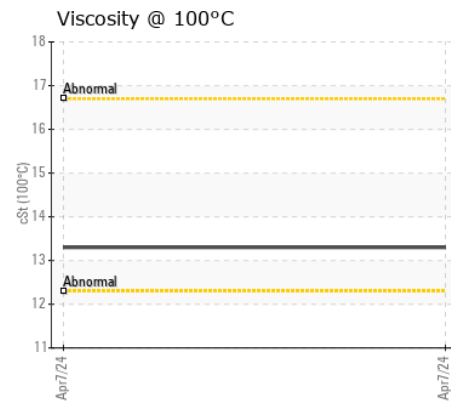
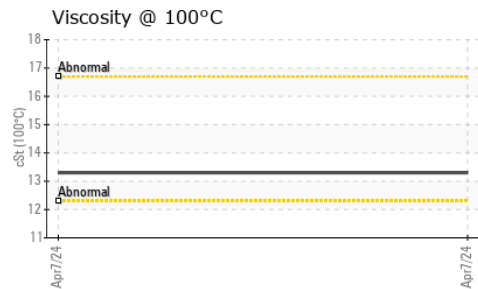
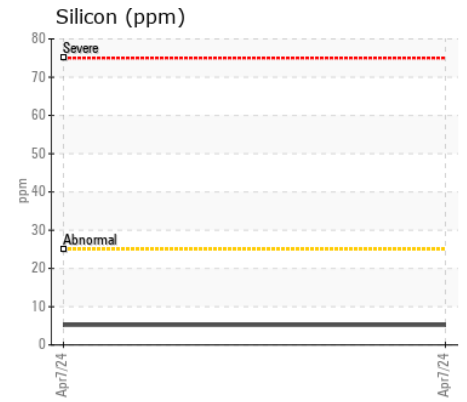
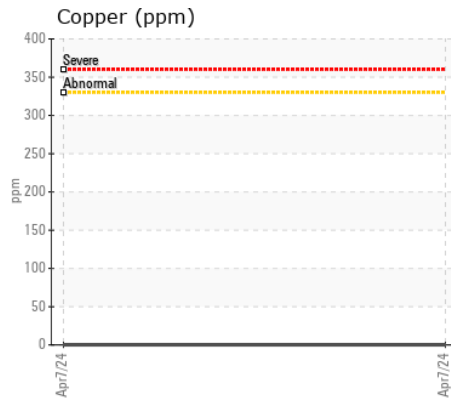
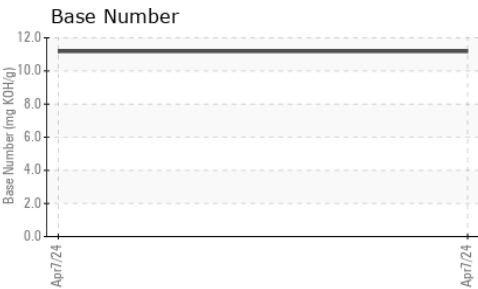
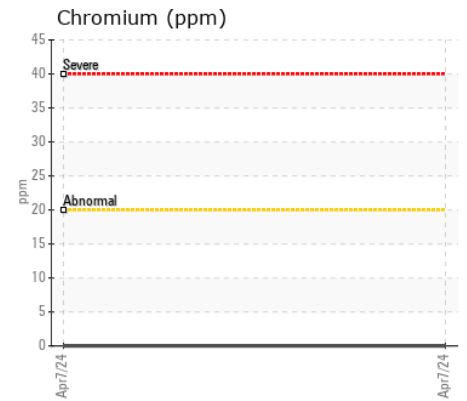
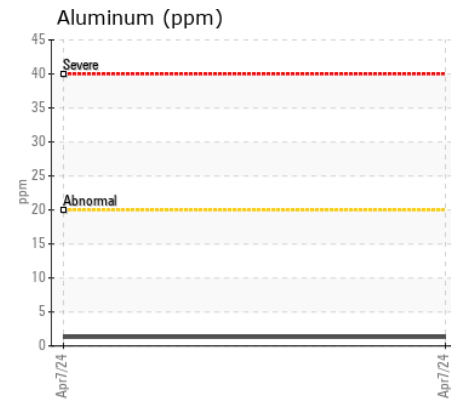
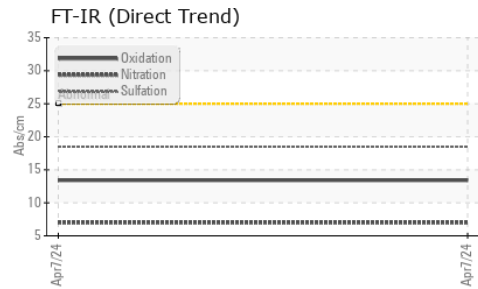
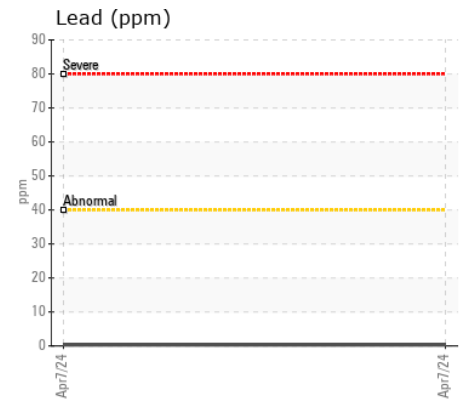
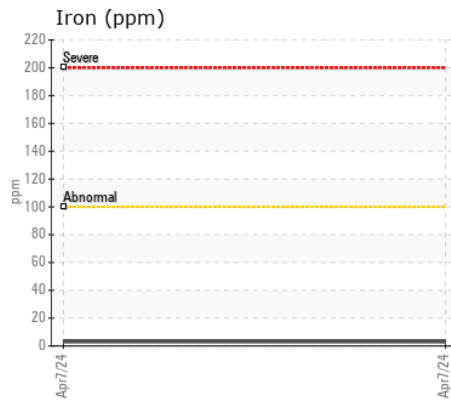
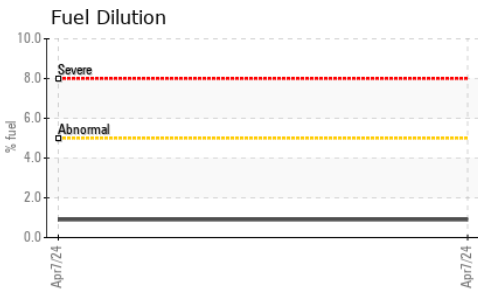
**CONTAMINATION**

Fuel content negligible. There is no indication of any contamination in the oil.

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 0W40 range, advise investigate. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0074247</b>	---	---
Sample Date		Client Info		<b>07 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>4300</b>	---	---
Oil Age	hrs	Client Info		<b>150</b>	---	---
Filter Age	hrs	Client Info		<b>150</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---
Iron	ppm	ASTM D5185(m)	>100	<b>3</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>0.9</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.5</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>119</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>11</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>740</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1227</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>988</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1120</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2988</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>11.18</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>78.9</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.3</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>171</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0074247 **Received** : 15 Apr 2024  
**Lab Number** : 02628639 **Tested** : 17 Apr 2024  
**Unique Number** : 5761771 **Diagnosed** : 17 Apr 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FUELDILUTION, KV40, PercentFuel, VI )

**EXCAVATION PARENT CLOVA**  
 515 CHEMIN PARENT  
 PARENT, QC  
 CA G0X 3P0  
 Contact: Service Manager

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.

T:  
F: