



# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area  
**JON FAZENBAKER**  
 Machine Id  
**BOB VAN SAMPLE**  
 Component  
**Gasoline Engine**  
 Fluid  
**NOT GIVEN (5 QTS)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: RECENT MAINTENANCE. WATER PUMP. HEAD GASKET. )

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Recent maintenance noted. Test for glycol is negative.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0882516</b>	---	---
Sample Date	Client Info		<b>17 Nov 2023</b>	---	---
Machine Age	mls Client Info		<b>182021</b>	---	---
Oil Age	mls Client Info		<b>20</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.1	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>150	<b>56</b>	---	---
Chromium	ppm ASTM D5185m	>8	<b>5</b>	---	---
Nickel	ppm ASTM D5185m	>5	<b>1</b>	---	---
Titanium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	>5	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>60	<b>24</b>	---	---
Lead	ppm ASTM D5185m	>75	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m	>75	<b>2</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>2</b>	---	---
Vanadium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>88</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>48</b>	---	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>679</b>	---	---
Calcium	ppm ASTM D5185m		<b>796</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>612</b>	---	---
Zinc	ppm ASTM D5185m		<b>747</b>	---	---
Sulfur	ppm ASTM D5185m		<b>2256</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>▲ 59</b>	---	---
Sodium	ppm ASTM D5185m		<b>25</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---

## INFRA-RED

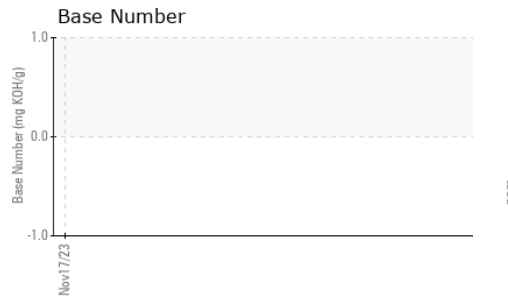
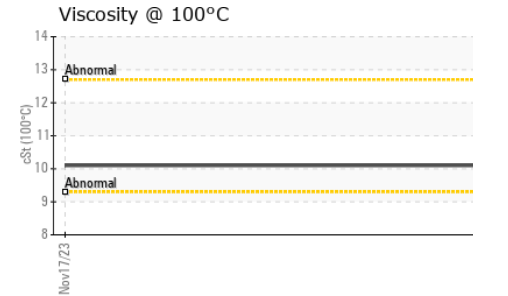
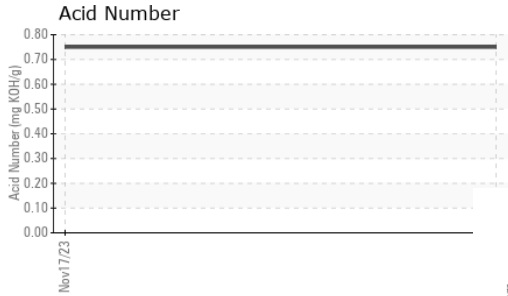
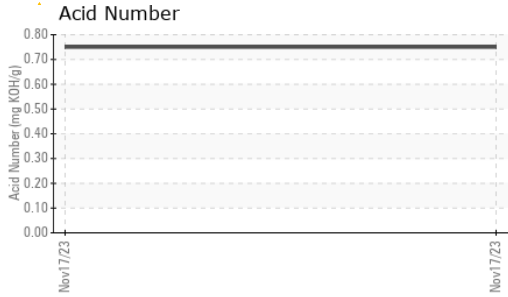
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844		<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>6.0</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>15.5</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>8.7</b>	---	---
Acid Number (AN)	mg KOH/g ASTM D8045		<b>0.75</b>	---	---



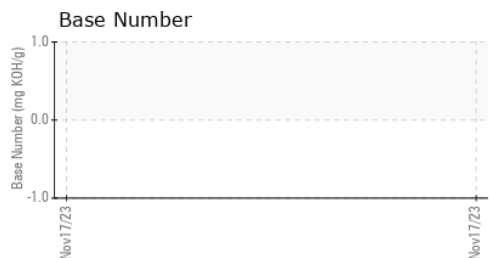
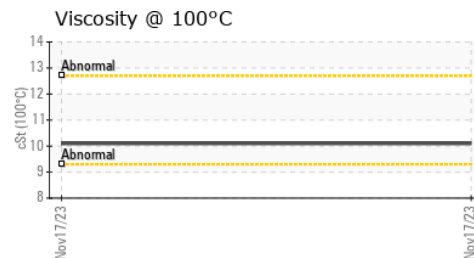
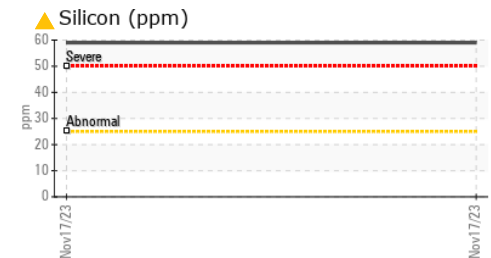
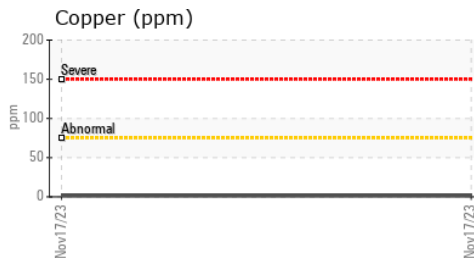
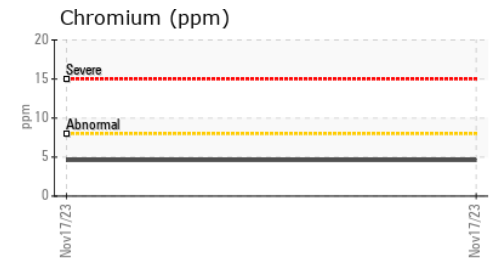
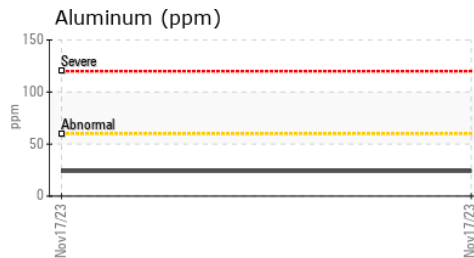
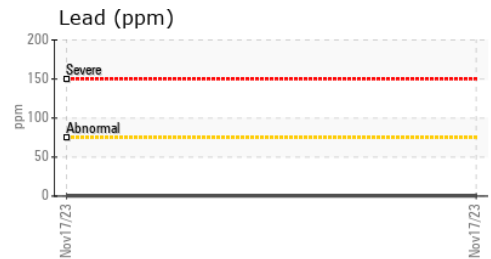
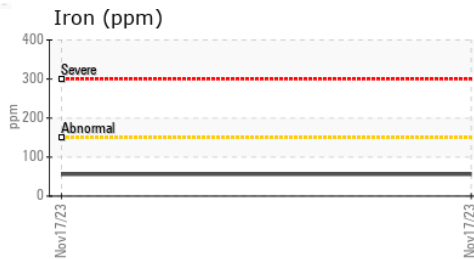
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.1	---	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0882516      **Received** : 17 Nov 2023  
**Lab Number** : 06011072      **Diagnosed** : 20 Nov 2023  
**Unique Number** : 10750216      **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: TBN )

**WEARCHECK USA**  
 501 Madison Ave  
 Cary, NC  
 US 27513

Contact: Jon Fazenbaker  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)