



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area

Ewing Hauling
Machine Id
AUTOCAR 2532

Component

Diesel Engine

Fluid

GIBRALTAR 15W/40 SUPER S-3 LX (11)

DIAGNOSIS

▲ Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0863209	---	---
Sample Date	Client Info		11 Oct 2023	---	---
Machine Age	hrs	Client Info	36766	---	---
Oil Age	hrs	Client Info	450	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	---
Chromium	ppm	ASTM D5185m	>20	<1	---
Nickel	ppm	ASTM D5185m	>4	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>20	1	---
Lead	ppm	ASTM D5185m	>40	0	---
Copper	ppm	ASTM D5185m	>330	0	---
Tin	ppm	ASTM D5185m	>15	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		44	---
Barium	ppm	ASTM D5185m		1	---
Molybdenum	ppm	ASTM D5185m	66	57	---
Manganese	ppm	ASTM D5185m		2	---
Magnesium	ppm	ASTM D5185m	1000	748	---
Calcium	ppm	ASTM D5185m	1050	1134	---
Phosphorus	ppm	ASTM D5185m	1150	726	---
Zinc	ppm	ASTM D5185m	1270	884	---
Sulfur	ppm	ASTM D5185m		2273	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 44	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	2	---

INFRA-RED

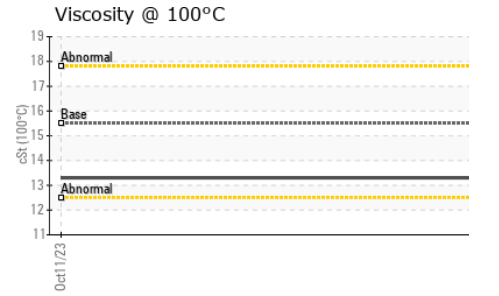
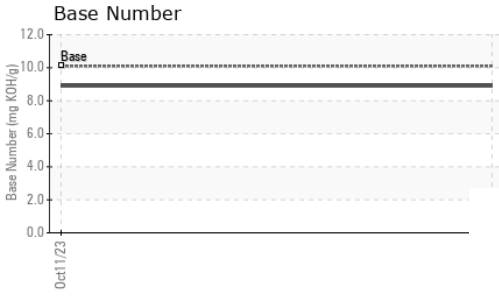
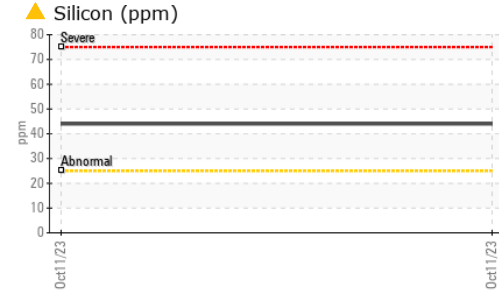
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.9	---



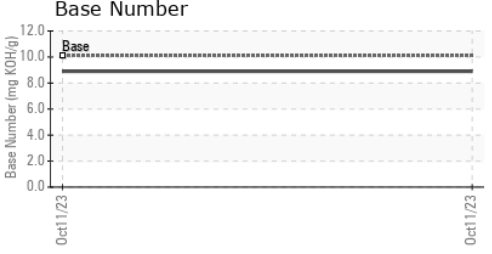
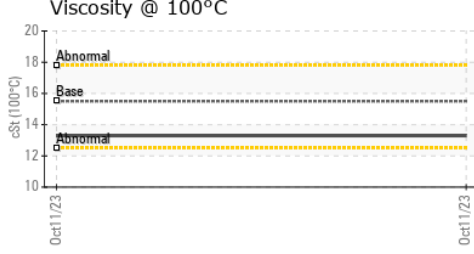
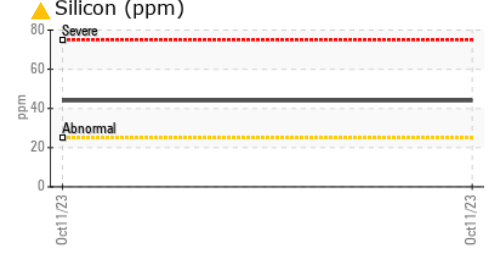
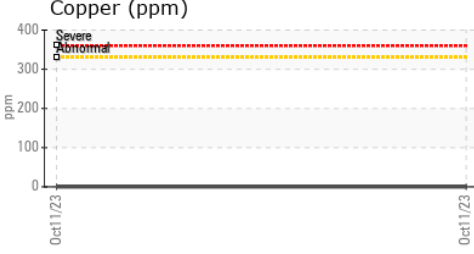
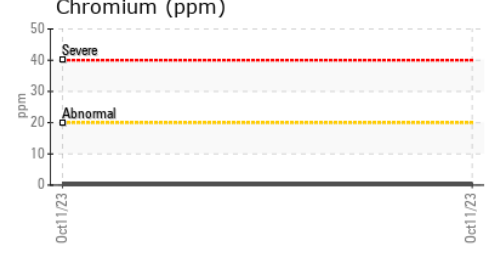
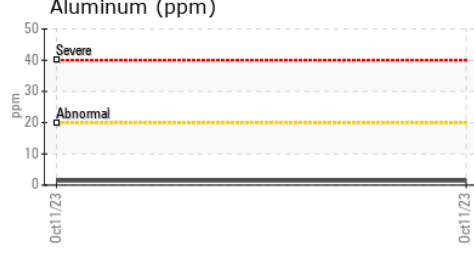
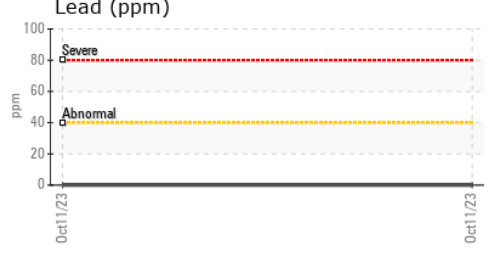
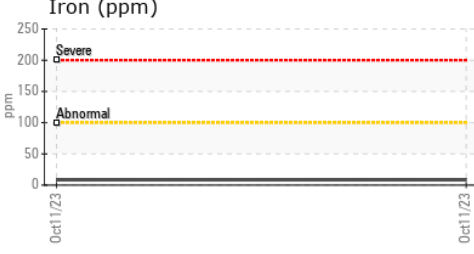
OIL ANALYSIS REPORT



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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	13.3	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0863209 **Received** : 16 Nov 2023
Lab Number : 06010072 **Diagnosed** : 20 Nov 2023
Unique Number : 10749216 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

INTERSTATE WASTE-EWING
 432 STOKES AVENUE
 EWING TOWNSHIP, NJ
 US 08638
 Contact: Carlos Evans
 CEvans@interstatewaste.com
 T:
 F:

Certificate L2367
 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)