



OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Area

Action Newark

Machine Id

PETERBILT 2353

Component

Diesel Engine

Fluid

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

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0863171	---	---
Sample Date	Client Info		24 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	25	---
Chromium	ppm	ASTM D5185m	>4	<1	---
Nickel	ppm	ASTM D5185m	>2	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>25	3	---
Lead	ppm	ASTM D5185m	>45	2	---
Copper	ppm	ASTM D5185m	>85	35	---
Tin	ppm	ASTM D5185m	>4	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m	66	68	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m	1000	712	---
Calcium	ppm	ASTM D5185m	1050	1171	---
Phosphorus	ppm	ASTM D5185m	1150	976	---
Zinc	ppm	ASTM D5185m	1270	1136	---
Sulfur	ppm	ASTM D5185m		2891	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	---
Sodium	ppm	ASTM D5185m		23	---
Potassium	ppm	ASTM D5185m	>20	▲ 104	---
Glycol	%	*ASTM D2982		NEG	---

INFRA-RED

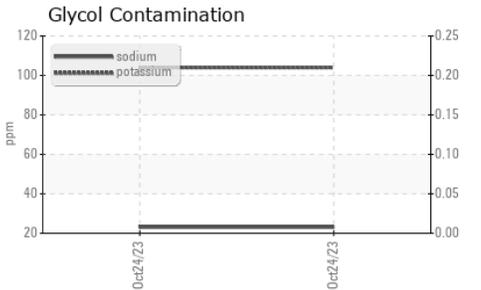
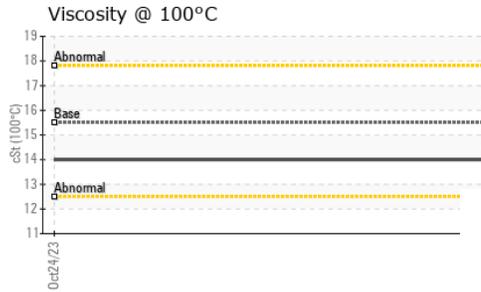
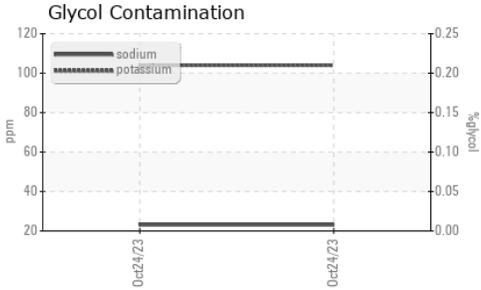
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	---
Nitration	Abs/cm	*ASTM D7624	>20	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.4	---



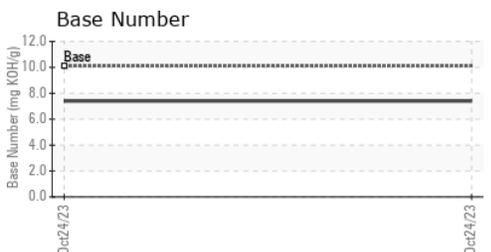
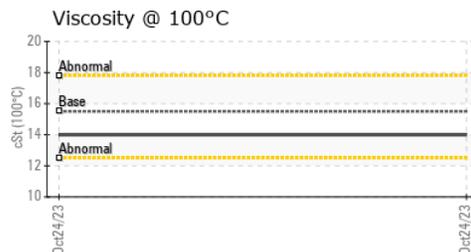
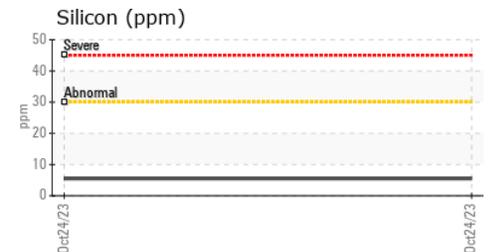
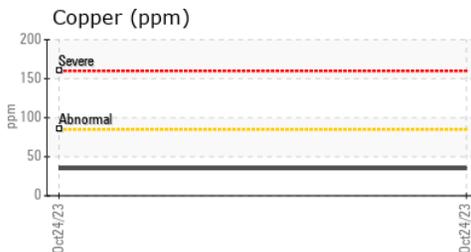
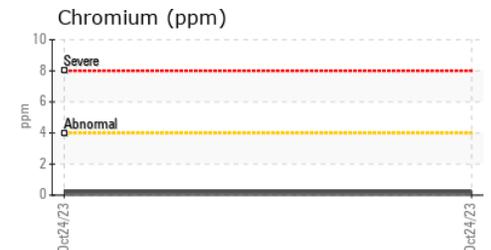
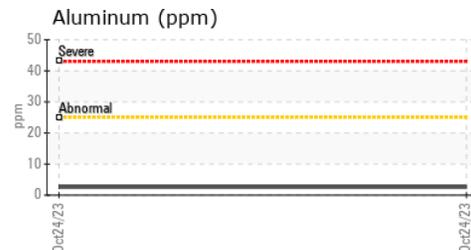
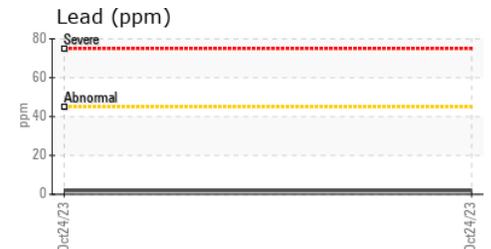
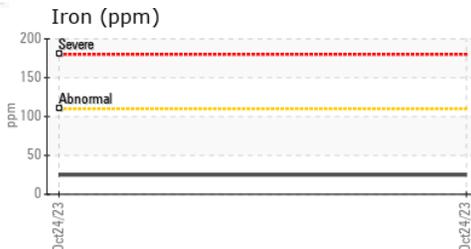
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	---	---
Precipitate	scalar	*Visual	NONE	---	---
Silt	scalar	*Visual	NONE	---	---
Debris	scalar	*Visual	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	---	---
Appearance	scalar	*Visual	NORML	---	---
Odor	scalar	*Visual	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	---	---
Free Water	scalar	*Visual	---	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	14.0	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0863171 Received : 02 Nov 2023
 Lab Number : 05997085 Diagnosed : 07 Nov 2023
 Unique Number : 10725445 Diagnostician : Jonathan Hester
 Test Package : MOB 1 (Additional Tests: Glycol, TBN)

INTERSTATE WASTE-NEWARK
 110 EVERGREEN AVE, BAY 3
 NEWARK, NJ
 US 07114
 Contact: Robert Witynski
 RWitynski@interstatewaste.com

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)

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F: