



PROBLEM SUMMARY

Area
SAPP BROS PETROLEUM - LINCOLN
 Machine Id
3035
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- GAL)

Sample Rating Trend

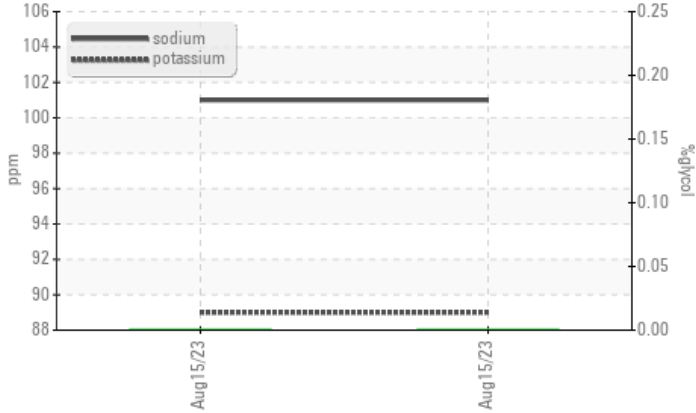


GLYCOL



COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Sodium	ppm	ASTM D5185m	▲ 101	---	---
Potassium	ppm	ASTM D5185m >20	▲ 89	---	---

Customer Id: SAPPLIN
 Sample No.: SBP05935841
 Lab Number: 05935841
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



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 Machine Id
3035
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Diesel Engine
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NOT GIVEN (--- GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

▲ 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		SBP05935841	---	---
Sample Date	Client Info		15 Aug 2023	---	---
Machine Age	mls	Client Info	392966	---	---
Oil Age	mls	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	>100	97	---
Chromium	ppm	ASTM D5185m	>20	4	---
Nickel	ppm	ASTM D5185m	>4	1	---
Titanium	ppm	ASTM D5185m		98	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>20	8	---
Lead	ppm	ASTM D5185m	>40	7	---
Copper	ppm	ASTM D5185m	>330	5	---
Tin	ppm	ASTM D5185m	>15	3	---
Vanadium	ppm	ASTM D5185m		1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		28	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		12	---
Manganese	ppm	ASTM D5185m		1	---
Magnesium	ppm	ASTM D5185m		511	---
Calcium	ppm	ASTM D5185m		1955	---
Phosphorus	ppm	ASTM D5185m		1113	---
Zinc	ppm	ASTM D5185m		1340	---
Sulfur	ppm	ASTM D5185m		4466	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	---
Sodium	ppm	ASTM D5185m		▲ 101	---
Potassium	ppm	ASTM D5185m	>20	▲ 89	---
Glycol	%	*ASTM D2982		0.0	---

INFRA-RED

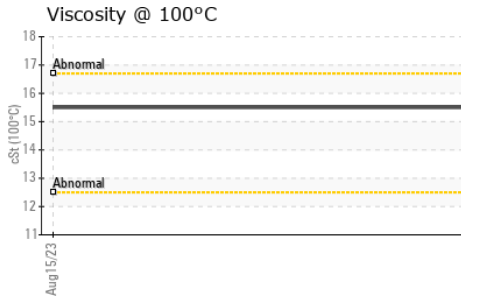
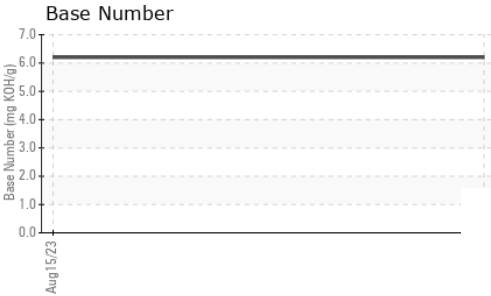
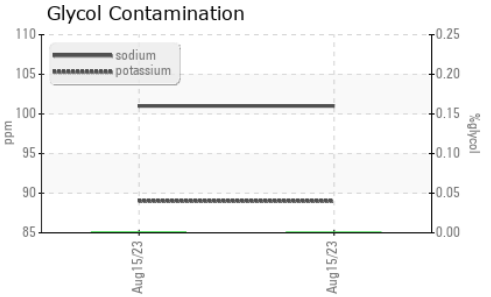
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.3	---
Nitration	Abs/cm	*ASTM D7624	>20	15.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	---



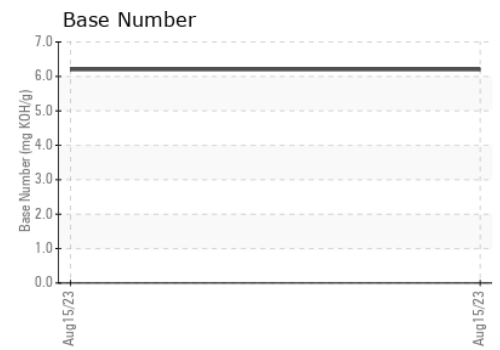
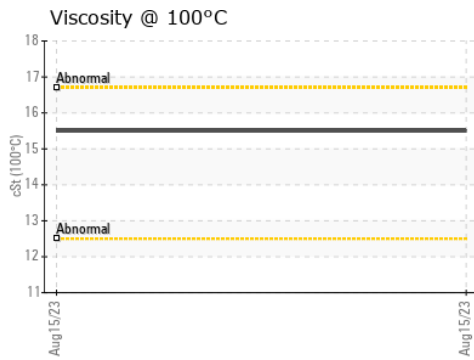
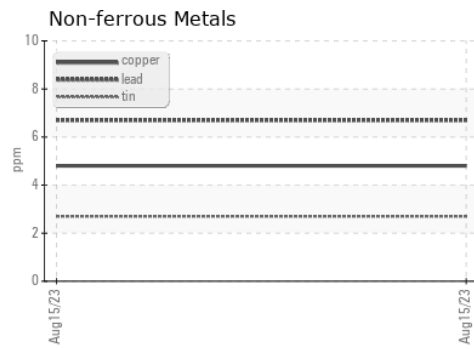
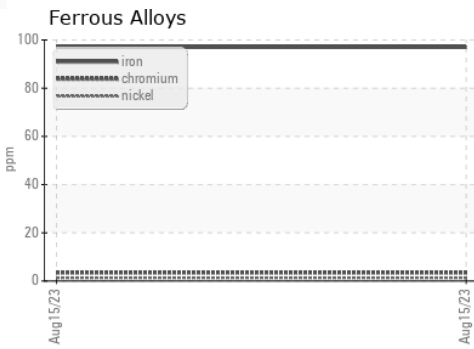
OIL ANALYSIS REPORT



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	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP05935841 **Received** : 28 Aug 2023
Lab Number : 05935841 **Diagnosed** : 01 Sep 2023
Unique Number : 10621112 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

Sapp Bros. Petroleum - Lincoln - LIN
 9915 South 148th
 OMAHA, NE
 US 68138
 Contact: JEFF PETERSEN
 jpetersen@sappbros.net

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)