



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[1057]
 Machine Id
91057-1057
 Component
Diesel Engine
 Fluid
AMERIGUARD 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0003682	---	---
Sample Date	Client Info		25 Oct 2023	---	---
Machine Age	mls Client Info		269972	---	---
Oil Age	mls Client Info		9577	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>80	4	---	---
Chromium	ppm ASTM D5185m	>5	<1	---	---
Nickel	ppm ASTM D5185m	>2	0	---	---
Titanium	ppm ASTM D5185m		<1	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>30	2	---	---
Lead	ppm ASTM D5185m	>30	0	---	---
Copper	ppm ASTM D5185m	>150	4	---	---
Tin	ppm ASTM D5185m	>5	<1	---	---
Vanadium	ppm ASTM D5185m		<1	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		19	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		54	---	---
Manganese	ppm ASTM D5185m		<1	---	---
Magnesium	ppm ASTM D5185m		863	---	---
Calcium	ppm ASTM D5185m		990	---	---
Phosphorus	ppm ASTM D5185m		928	---	---
Zinc	ppm ASTM D5185m		1195	---	---
Sulfur	ppm ASTM D5185m		2696	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>20	3	---	---
Sodium	ppm ASTM D5185m		2	---	---
Potassium	ppm ASTM D5185m	>20	2	---	---

INFRA-RED

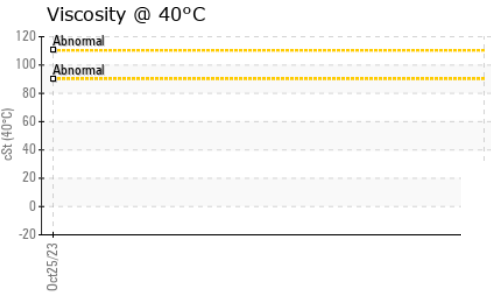
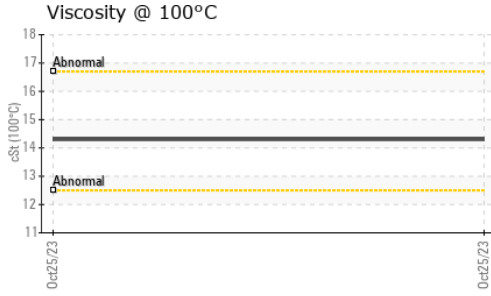
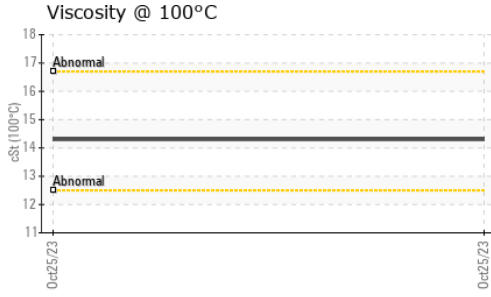
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.2	---	---
Nitration	Abs/cm *ASTM D7624		5.6	---	---
Sulfation	Abs/.1mm *ASTM D7415		18.8	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		13.9	---	---
Base Number (BN)	mg KOH/g ASTM D2896		9.20	---	---



OIL ANALYSIS REPORT



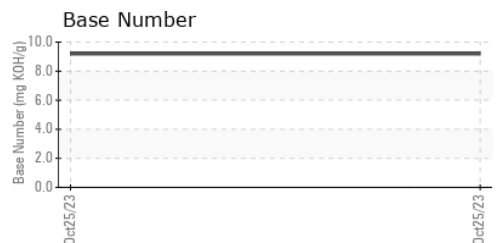
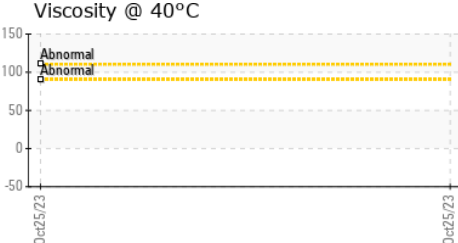
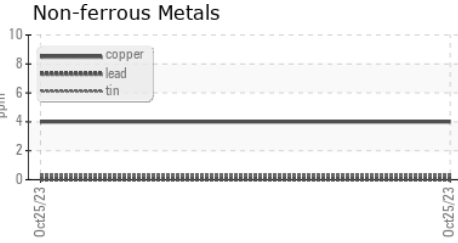
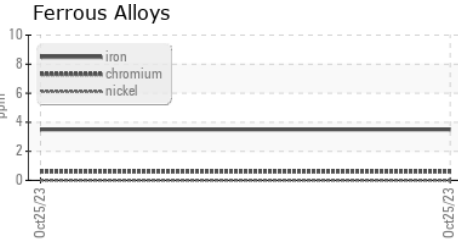
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	14.3	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0003682 **Received** : 17 Nov 2023
Lab Number : **06010525** **Diagnosed** : 05 Dec 2023
Unique Number : 10749669 **Diagnostician** : Doug Bogart
Test Package : FLEET (Additional Tests: FT-IR, KV100, TBN)

Sapp Bros. Fleet - Salt Lake City Location
 1953 California Avenue
 Salt Lake City, UT
 US 84104
 Contact: Bernie Reorda
 breorda@sappbros.net
 T: (801)977-3900
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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)