

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



Machine Id **91109** Component **Diesel Engine** 

AMERIGUARD 15W40 (--- GAL)

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Metal levels are typical for a new component breaking in.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

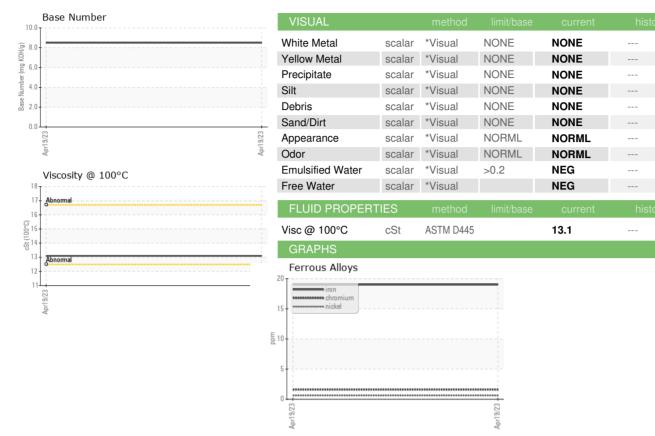
### **Fluid Condition**

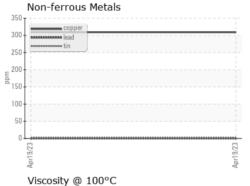
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Apr2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0003622		
Sample Date		Client Info		19 Apr 2023		
Machine Age	mls	Client Info		38940		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	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	19		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	34		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	309		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		66		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		905		
Calcium	ppm	ASTM D5185m		1255		
Phosphorus	ppm	ASTM D5185m		1066		
Zinc	ppm	ASTM D5185m		1276		
Sulfur	ppm	ASTM D5185m		3137		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	83		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3		
Base Number (BN)	mg KOH/g	ASTM D2896		8.5		

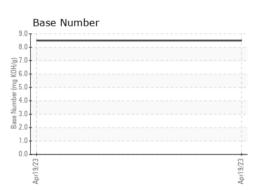


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Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: SBP0003622 : 05871417 : 10511201

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved

: 12 Jun 2023 Diagnosed : Wes Davis Diagnostician

: 13 Jun 2023

Peru, IL US 61354 Contact: Matt Ossola

3130 May Road

MOssola@SAPPBROS.NET T:

Sapp Bros. Fleet - Peru Location

\* - 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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