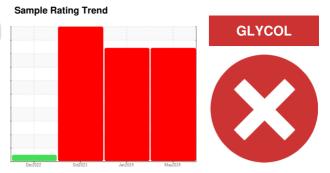


PROBLEM SUMMARY

DV

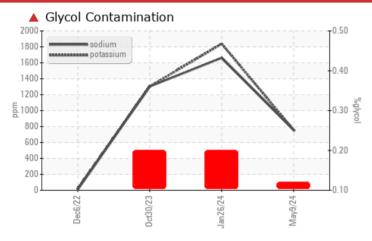




Machine Id
93041
Component
Diesel Engine
Fluid

AMERIGUARD 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Potassium	ppm	ASTM D5185m	>20	^ 756	<u></u> 1839	<u></u> 1302		
Glycol	%	*ASTM D2982		▲ 0.12	▲ 0.20	▲ 0.20		

Customer Id: SBTJUL Sample No.: SBP0005888 Lab Number: 06195043 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS

26 Jan 2024 Diag: Jonathan Hester

X

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



GLYCOL



We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. Test for glycol is positive. There is an abnormal amount of solids and carbon present in the oil. 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. The oil is no longer serviceable due to the presence of contaminants.



NORMAL



30 Oct 2023 Diag: Doug Bogart



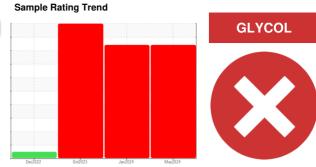
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT





DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

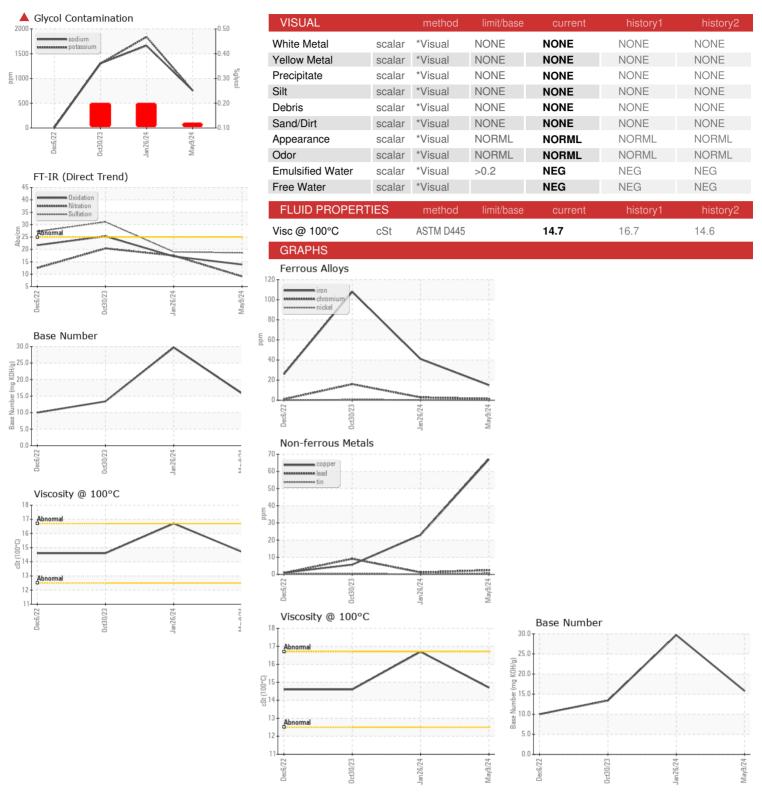
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

(10 GAL)		Dec202	2 0ct2023	Jan2024 M	ay2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005888	SBP0005915	SBP0005576
Sample Date		Client Info		09 May 2024	26 Jan 2024	30 Oct 2023
Machine Age	mls	Client Info		321700	320238	317340
Oil Age	mls	Client Info		1447	2808	10820
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	15	41	<u> </u>
Chromium	ppm	ASTM D5185m	>5	1	3	1 6
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	1	1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	2	6	<u></u> 16
Lead	ppm	ASTM D5185m	>30	2	1	9
Copper	ppm	ASTM D5185m	>150	67	23	6
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	27	11
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		107	165	141
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		934	744	868
Calcium	ppm	ASTM D5185m		1165	907	1188
Phosphorus	ppm	ASTM D5185m		1111	877	886
Zinc	ppm	ASTM D5185m		1302	1031	1232
Sulfur	ppm	ASTM D5185m		3936	2654	3015
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	9	14
Sodium	ppm	ASTM D5185m		759	1662	1303
Potassium	ppm	ASTM D5185m	>20	756	<u> </u>	▲ 1302
Glycol	%	*ASTM D2982		▲ 0.12	▲ 0.20	▲ 0.20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.6	△ 3.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	17.5	20.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.0	31.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	17.2	25.3
Base Number (BN)	mg KOH/g	ASTM D2896		15.8	29.7	13.4



OIL ANALYSIS REPORT





Certificate 12367

Laboratory

Sample No.

Test Package : FLEET

: SBP0005888 Lab Number : 06195043 Unique Number : 11057166

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested**

: 31 May 2024

Diagnosed

: 31 May 2024 - Wes Davis Contact: Service Manager

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

 st - 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)

Report Id: SBTJUL [WUSCAR] 06195043 (Generated: 05/31/2024 12:24:20) Rev: 1

Submitted By: DAN VAN ZEE

Sapp Bros. Fleet - Julesburg Location

US

T:

F: