

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL				
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	4				
Fuel	%	ASTM D3524	>3.0	1 9.8	0.3				
Visc @ 100°C	cSt	ASTM D445		& 8.3	12.4				

Customer Id: AVWCHA Sample No.: WC0923663 Lab Number: 06198978 Test Package: CONST



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		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



08 May 2023 Diag: Wes Davis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a components first oil change. Fuel content negligible. 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.

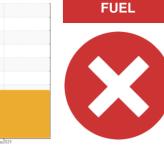






OIL ANALYSIS REPORT

Sample Rating Trend



208 Component Diesel Engine Fluid

Machine Id

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

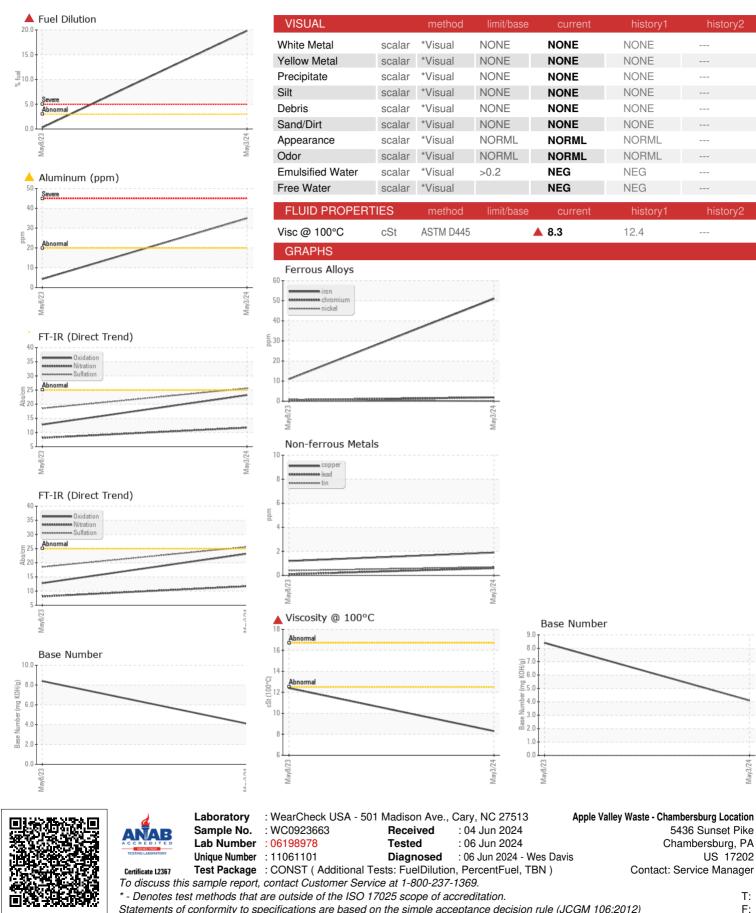
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923663	WC0759980	
Sample Date		Client Info		03 May 2024	08 May 2023	
Machine Age	hrs	Client Info		10910	8512	
Oil Age	hrs	Client Info		2398	8512	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	51	11	
Chromium	ppm	ASTM D5185m	>20	2	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	▲ 35	4	
Lead	ppm	ASTM D5185m	>40	<1 c0	<1	
Copper	ppm	ASTM D5185m	>330	2	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	13	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		53	67	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		676	862	
Calcium	ppm	ASTM D5185m		943	1146	
Phosphorus	ppm	ASTM D5185m		777	973	
Zinc	ppm	ASTM D5185m		899	1197	
Sulfur	ppm	ASTM D5185m		2203	3385	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	4	
Sodium	ppm	ASTM D5185m		9	4	
Potassium	ppm	ASTM D5185m	>20	36	6	
Fuel	%	ASTM D3524	>3.0	1 9.8	0.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.3	0.5	
Nitration	Abs/cm	*ASTM D7624		11.7	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	18.5	
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	12.8	
Base Number (BN)	mg KOH/g	ASTM D2896	-	4.1	8.4	
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OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: BOB MCQUADE Page 4 of 4