

### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Nickel	ppm	ASTM D5185m	>5	<u> </u>	0	0			
Aluminum	ppm	ASTM D5185m	>20	<b>1</b> 9	2	2			
Sodium	ppm	ASTM D5185m		<b>A</b> 3151	3	3			
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 33	1	2			
Glycol	%	*ASTM D2982		<b>0.10</b>	NEG	NEG			

Customer Id: BLUCHA Sample No.: PCA0122165 Lab Number: 06235589 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action Change Fluid	Status	Date	Done By ?	<b>Description</b> Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
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

#### 18 Mar 2024 Diag: Wes Davis

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.





### 23 Jan 2024 Diag: Wes Davis

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.





### 31 Oct 2023 Diag: Wes Davis

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**

Sample Rating Trend



Machine Id BM-115 Component Diesel Engir Fluid PETRO CANA

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (10 GAL)

# DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### A Wear

The aluminum level is marginal. Valve wear is indicated.

#### Contamination

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

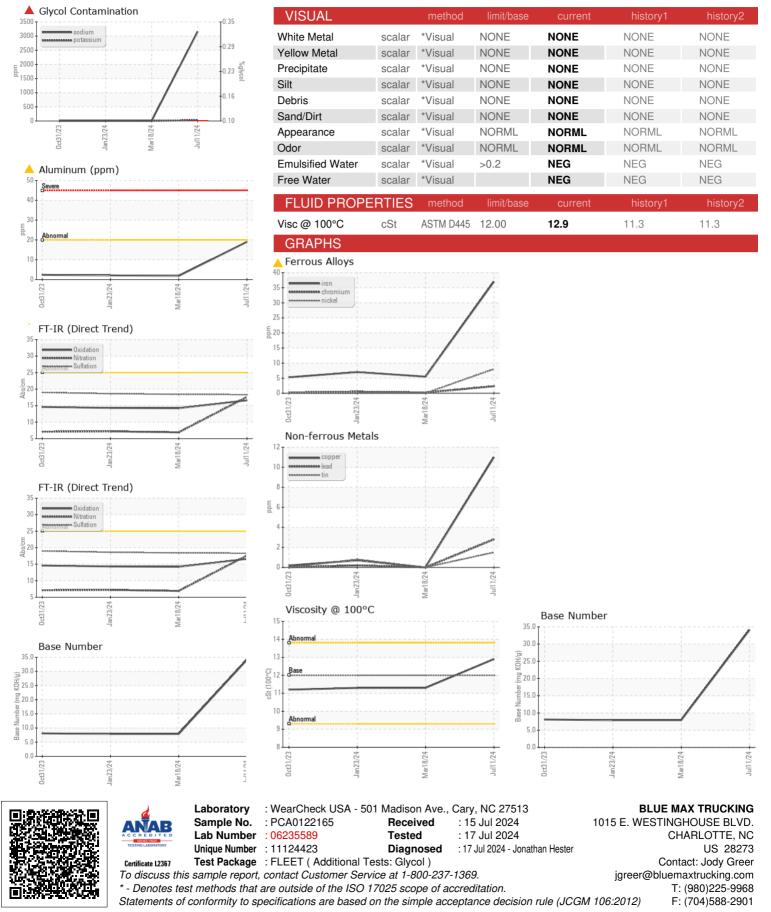
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122165	PCA0110723	PCA0114023
Sample Date		Client Info		11 Jul 2024	18 Mar 2024	23 Jan 2024
Machine Age	mls	Client Info		219446	193560	193560
Oil Age	mls	Client Info		25886	10739	14681
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	37	6	7
Chromium	ppm	ASTM D5185m		2	<1	<1
Nickel	ppm	ASTM D5185m	>5	_ _ 8	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	2	2
Lead	ppm	ASTM D5185m	>40	3	0	<1
Copper	ppm	ASTM D5185m	>330	11	0	<1
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	77	1	0
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	50	188	64	53
Manganese	ppm	ASTM D5185m	0	2	0	<1
Magnesium	ppm	ASTM D5185m	950	946	1043	958
Calcium	ppm	ASTM D5185m	1050	1062	1199	1071
Phosphorus	ppm	ASTM D5185m	995	1025	1161	1001
Zinc	ppm	ASTM D5185m	1180	1249	1355	1182
Sulfur	ppm	ASTM D5185m	2600	3229	4018	2890
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20	3	4
Sodium	ppm	ASTM D5185m		<u> </u>	3	3
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 33	1	2
Glycol	%	*ASTM D2982		<b>A</b> 0.10	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	17.6	6.9	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.4	18.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	14.2	14.3
Base Number (BN)	mg KOH/g	ASTM D2896		34.1	7.9	7.9
Dase Number (DN)	ingitoring	TO THE BLOOD		V-1.1	110	1.0



# **OIL ANALYSIS REPORT**



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