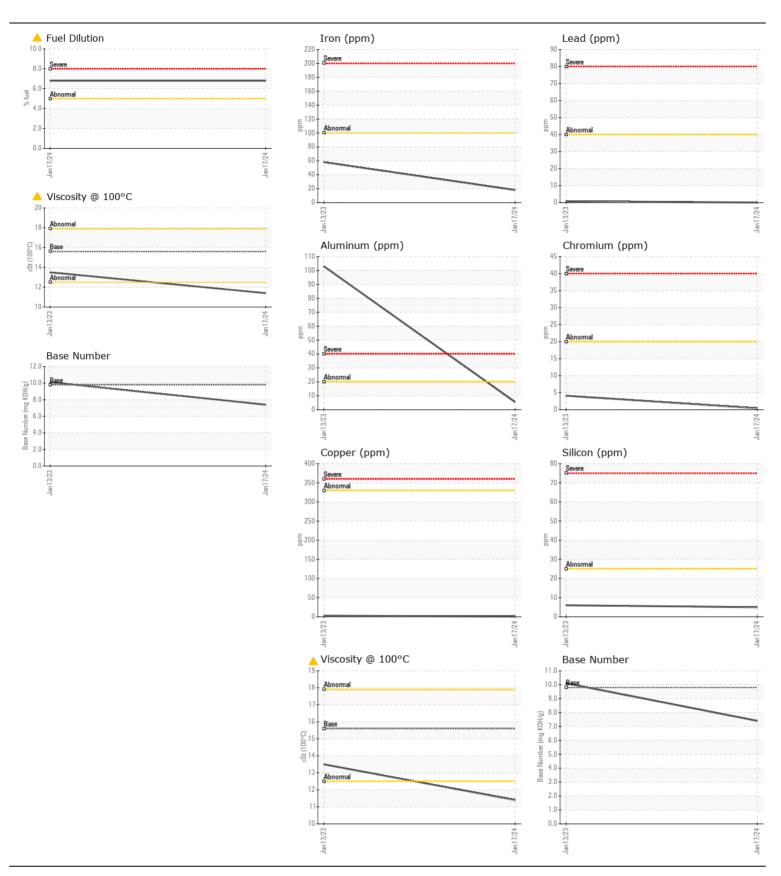
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id 4003

Component Diesel Engine							
Fluid							
PETRO CANADA DURON HP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0867931	WC0740633	
	Sample Date		Client Info		17 Jan 2024	13 Jan 2023	
	Machine Age	mls	Client Info		0	34019	
	Oil Age	mls	Client Info		0	2800	
	Filter Age	mls	Client Info		0	2800	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	18	58	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	4	
	Nickel	ppm	ASTM D5185m	>4	0	1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	6	<u></u> 103	
	Lead	ppm	ASTM D5185m	>40	0	<1	
	Copper	ppm	ASTM D5185m	>330	<1	3	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	
	Fuel	%	ASTM D3524	>5	6.8	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	5.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	17.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	
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 due to the presence of contaminants.	Boron	ppm	ASTM D5185m		8	15	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		57	54	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		647	849	
	Calcium	ppm	ASTM D5185m		1300	1062	
	Phosphorus	ppm	ASTM D5185m		877	998	
	Zinc	ppm	ASTM D5185m		1170	1199	
	Sulfur	ppm	ASTM D5185m		2819	3806	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	12.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	10.1	
	Visc @ 100°C	cSt	ASTM D445	15.6	<u> </u>	13.5	







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: WC0867931 : 06074514 : 10856605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 Diagnosed : 01 Feb 2024

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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.

ANSON CO SCHOOL BUS GARAGE

89 BOGGAN CUT RD WADESBORO, NC

US 28135 Contact: MATT POWELL

powell.berkeley@anson.k12.nc.us

T:

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