WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

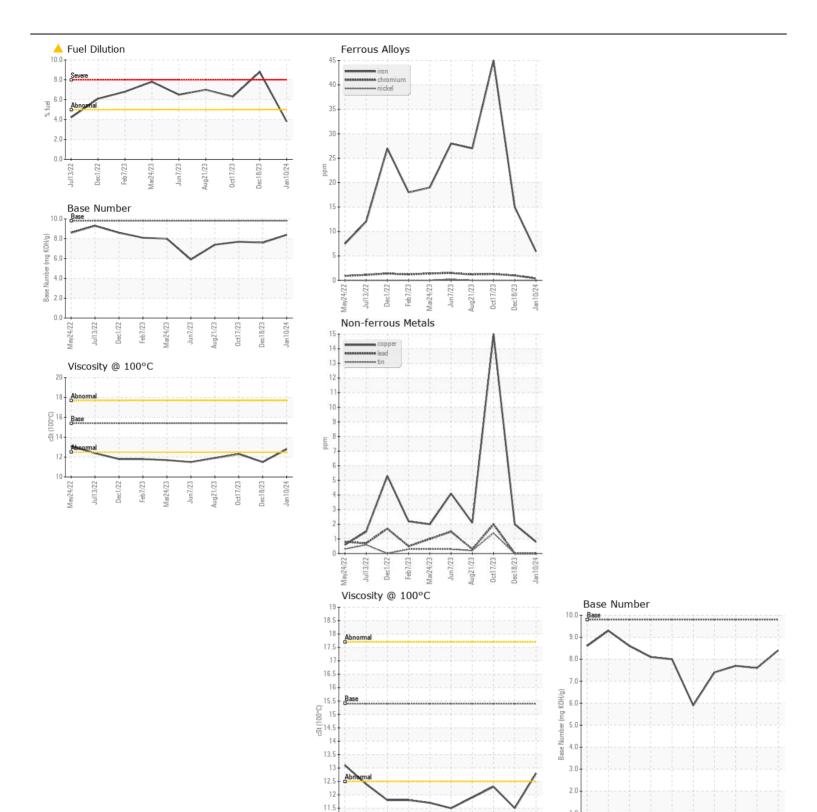
NORMAL

Machine Id

**755** 

Component Diesel Engine

					$\overline{}$	1	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0817218		WC0773712
	Sample Date		Client Info		10 Jan 2024	18 Dec 2023	17 Oct 2023
	Machine Age	mls	Client Info		322887	15705	15460
	Oil Age	mls	Client Info		0	15705 15705	0
	Filter Age Oil Changed	mls	Client Info		-	Changed	Changed
	Filter Changed		Client Info		Changed Changed	Changed	Changed
	Sample Status		Client inio		MARGINAL	SEVERE	ABNORMAL
······							
WEAR	Iron	ppm	ASTM D5185m	>100	6	15	45
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	3	4
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m		<1	2	15
	Tin	ppm	ASTM D5185m	>15	0	0	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	4	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	0	<1
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524		<b>△</b> 3.8	8.8	<u></u> 6.3
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	9.5	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	22.0	20.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	15	2
-LOID CONDITION	Boron	ppm	ASTM D5185m	0	2	3	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		59	56	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		929	877	935
	Calcium	ppm	ASTM D5185m		1064	995	1050
	Phosphorus	ppm	ASTM D5185m		1025	1020	1026
	Zinc	ppm	ASTM D5185m		1222	1176	1249
	Sulfur	ppm	ASTM D5185m		3085	2792	3513
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	23.1	20.7
	Base Number (BN)				8.4	7.6	7.7
	Visc @ 100°C	cSt	ASTM D445		12.8	<u>▲</u> 11.5	<u>▲</u> 12.3







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: 06061803

: WC0817218 : 10833185

10.5

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024

Aug21/23 Oct17/23 Dec18/23 Jan 10/24

May24/22

Diagnosed : 18 Jan 2024 Diagnostician : Wes Davis

Test Package : FLEET ( Additional Tests: PercentFuel ) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

AREA TRANSPORTATION AUTHORITY

44 TRANSPORTATION CENTER JOHNSONBURG, PA US 15845

Contact: J SCHLODER jschloder@rideata.com

T:

Oct17/23 Dec18/23 Jan 10/24

F: