**WEAR** CONTAMINATION **FLUID CONDITION** 

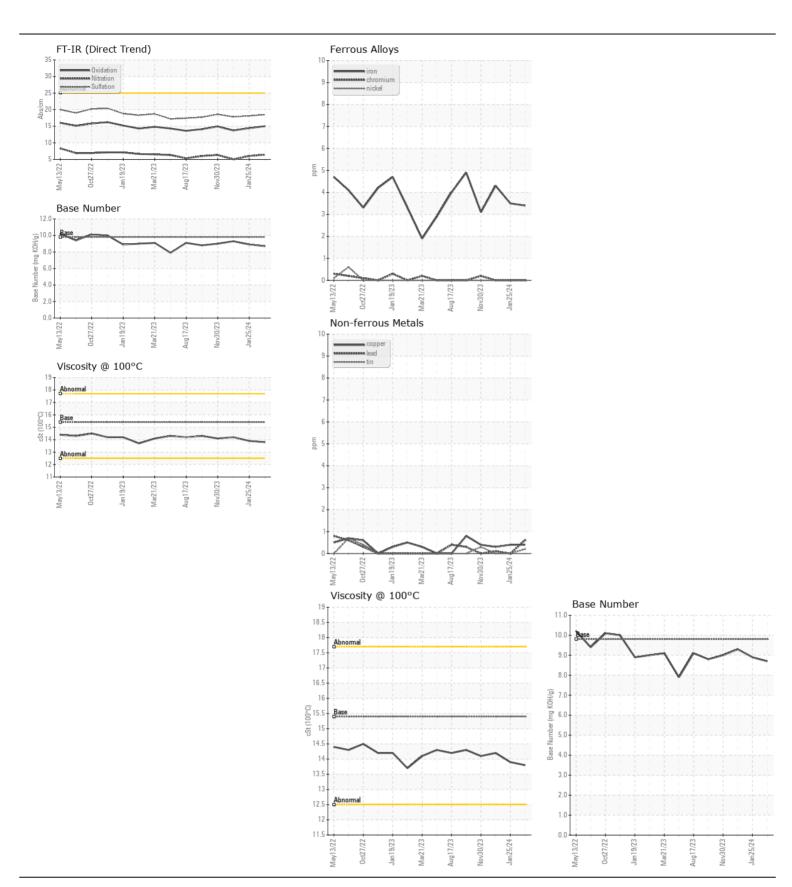
**NORMAL NORMAL NORMAL** 

Machine Id

## 731 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0817174	WC0817192	
	Sample Date		Client Info		10 Apr 2024	25 Jan 2024	01 Jan 202
	Machine Age	hrs	Client Info		12536	12349	0
	Oil Age	hrs	Client Info		12536	0	0
	Filter Age	hrs	Client Info		12536	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
NEAD	Iron	nnm	ASTM D5185m	. 100		1	4
WEAR	Iron	ppm			3	4	4
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>4	<1	<1	0
	Silver	ppm	ASTM D5185m	. 2	0	0	0
	Aluminum	ppm ppm	ASTM D5185m		√ <1	<1	<1
	Lead		ASTM D5185m		<1 <1	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m	7.0	<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	2	2	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	0	<1
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.0	5.0
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.1	17.8
	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	NORM NORM
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NEG
<u></u>		Scalai	VISUAI	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	<1
	Boron	ppm	ASTM D5185m	0	5	5	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	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	58	57	57
	Manganese	ppm	ASTM D5185m	0	0	0	0
	Magnesium	ppm	ASTM D5185m	1010	971	957	1029
	Calcium	ppm	ASTM D5185m		1065	1067	1119
	Phosphorus	ppm	ASTM D5185m	1150	996	983	1080
	Zinc	ppm	ASTM D5185m		1254	1207	1313
	Sulfur	ppm	ASTM D5185m	2060	3740	3106	3366
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	14.4	13.7
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.9	9.3
	Visc @ 100°C	cSt	ASTM D445	4 = 4	13.8	13.9	14.2

Contact/Location: DONALD KNEPP - AREJOH







Certificate L2367

Laboratory Sample No.

Lab Number : 06151010

: WC0817174 Unique Number: 10981088 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Wes Davis

AREA TRANSPORTATION AUTHORITY 44 TRANSPORTATION CENTER

JOHNSONBURG, PA US 15845

Contact: DONALD KNEPP

dknepp@rideata.com T: (814)371-0443

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)

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