WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

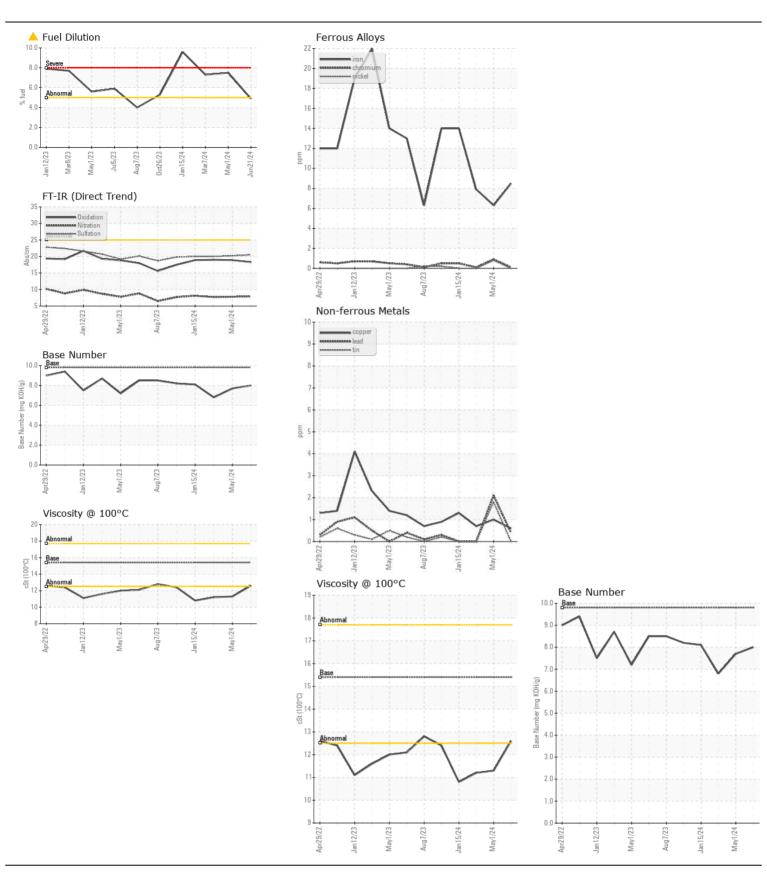
NORMAL

Machine Id

726Component

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0870214	WC0725862	WC0817206
The oil change at the time of sampling has been noted. Resample at	Sample Date		Client Info		21 Jun 2024	01 May 2024	07 Mar 2024
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.	Machine Age	mls	Client Info		20276	20026	0
	Oil Age	mls	Client Info		20276	20026	0
	Filter Age	mls	Client Info		20276	20026	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	8	6	8
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		1	2	1
	Lead	ppm	ASTM D5185m		- <1	2	0
	Copper	ppm	ASTM D5185m		<1	1	<1
	Tin	ppm	ASTM D5185m		0	2	0
	Vanadium	ppm	ASTM D5185m		0	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	3	2
	Potassium	ppm	ASTM D5185m		<1	2	0
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	▲ 4.9	<u>∠</u> 7.5	<u>^</u> 7.3
	Water	, -	WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.8	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.2	20.0
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
							<1
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	0	1 2	2	4
The BN result indicates that there is suitable alkalinity remaining in the		ppm					0
Fhe BN result indicates that there is suitable alkalinity remaining in the	Boron		ASTM D5185m	0	2	2	
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	2 0	2 0	0
he BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0	2 0 58	2 0 50	0 54
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010	2 0 58 <1	2 0 50 1	0 54 0
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070	2 0 58 <1 997	2 0 50 1 957	0 54 0 932
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270	2 0 58 <1 997 1133	2 0 50 1 957 1039	0 54 0 932 1023 988 1180
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270	2 0 58 <1 997 1133 1093	2 0 50 1 957 1039 1055	0 54 0 932 1023
Fhe BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Oxidation	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414	0 60 0 1010 1070 1150 1270 2060 >25	2 0 58 <1 997 1133 1093 1312 3705 18.3	2 0 50 1 957 1039 1055 1222 3687 18.9	0 54 0 932 1023 988 1180 3510 19.0
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414	0 60 0 1010 1070 1150 1270 2060 >25	2 0 58 <1 997 1133 1093 1312 3705	2 0 50 1 957 1039 1055 1222 3687	0 54 0 932 1023 988 1180 3510







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06231127

: WC0870214 Unique Number : 11114620

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 08 Jul 2024 **Tested** Diagnosed

: 11 Jul 2024 Test Package: FLEET (Additional Tests: PercentFuel)

: 11 Jul 2024 - Wes Davis

JOHNSONBURG, PA US 15845 Contact: Mike Agosti magosti@rideata.com T: (814)965-1265

AREA TRANSPORTATION AUTHORITY

44 TRANSPORTATION CENTER

* - 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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