WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ABNORMAL

Machine Id

755

Component
Diesel Engine

RECOMMENDATION  The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0870219	WC0817203	WC081721
	Sample Date		Client Info		10 Jun 2024	26 Feb 2024	10 Jan 202
	Machine Age	hrs	Client Info		16304	16036	322887
	Oil Age	hrs	Client Info		16304	16036	0
	Filter Age	hrs	Client Info		16304	16036	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	MARGINA
WEAR	Iron	ppm	ASTM D5185m	>100	17	8	6
	Chromium	ppm	ASTM D5185m	>20	1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		6	1	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	0	<1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	3	3
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	0	0
	Fuel	%	ASTM D3524	>5	<b>5.9</b>	<b>△</b> 5.8	<b>△</b> 3.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.2	6.4
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	20.3	19.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NONE
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	<1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		8	5	2
	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		55	58	59
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		904	950	929 1064
	Phosphorus	ppm	ASTM D5185m		1016	995 1020	1064
	Zinc	ppm	ASTM D5185m		1021 1188	1207	1222
	Sulfur	ppm	ASTM D5185m		3397	2764	3085
	Oxidation	Abs/.1mm	*ASTM D3163111		24.2	19.2	15.9
	Base Number (BN)				7.3	7.9	8.4
	_ acc ambor (DIV)	9 9		0.0			0.1

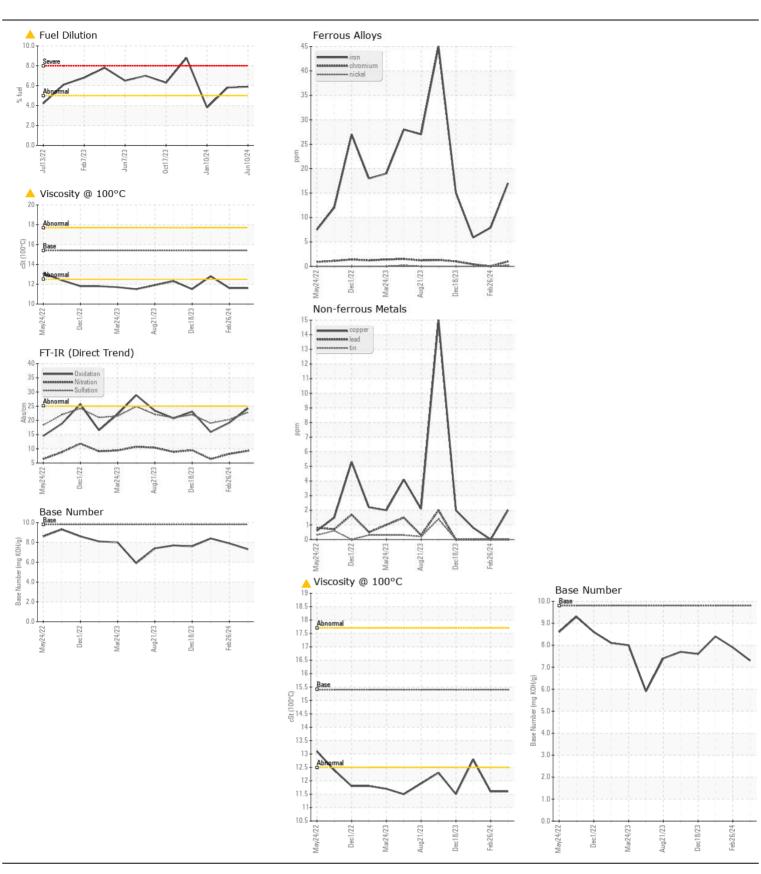
Visc @ 100°C cSt

ASTM D445 15.4

<u>11.6</u>

11.6

12.8







Certificate L2367

Report Id: AREJOH [WUSCAR] 06212900 (Generated: 06/22/2024 02:05:05) Rev: 1

Laboratory Sample No.

: WC0870219 Lab Number : 06212900

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

Received **Tested** Diagnosed Unique Number: 11085764

Test Package: FLEET (Additional Tests: PercentFuel)

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

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.

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

: 17 Jun 2024

JOHNSONBURG, PA US 15845 Contact: Mike Agosti magosti@rideata.com

44 TRANSPORTATION CENTER

AREA TRANSPORTATION AUTHORITY

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