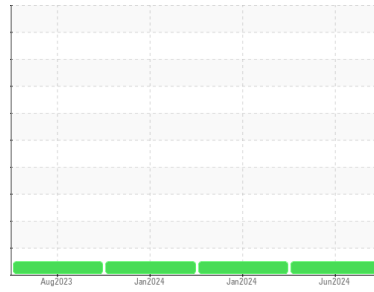


OIL ANALYSIS REPORT



Machine Id
DT846
 Component
Diesel Engine
 Fluid
 {not provided} (--- GAL)

Sample Rating Trend



NORMAL

✓

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0121961	PCA0114722	PCA0110903
Sample Date	Client Info		24 Jun 2024	29 Jan 2024	24 Jan 2024
Machine Age	mls Client Info		104274	50972	75743
Oil Age	mls Client Info		24771	50972	50972
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>120	22	22	23
Chromium	ppm ASTM D5185m	>20	<1	1	<1
Nickel	ppm ASTM D5185m	>5	3	3	2
Titanium	ppm ASTM D5185m	>2	0	<1	0
Silver	ppm ASTM D5185m	>2	<1	<1	0
Aluminum	ppm ASTM D5185m	>20	6	8	8
Lead	ppm ASTM D5185m	>40	0	<1	0
Copper	ppm ASTM D5185m	>330	4	8	8
Tin	ppm ASTM D5185m	>15	<1	2	1
Vanadium	ppm ASTM D5185m		0	<1	0
Cadmium	ppm ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		4	2	4
Barium	ppm ASTM D5185m		0	0	0
Molybdenum	ppm ASTM D5185m		60	55	60
Manganese	ppm ASTM D5185m		2	1	<1
Magnesium	ppm ASTM D5185m		951	893	982
Calcium	ppm ASTM D5185m		1119	1122	1185
Phosphorus	ppm ASTM D5185m		1009	955	1040
Zinc	ppm ASTM D5185m		1286	1153	1270
Sulfur	ppm ASTM D5185m		3191	2646	2947

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	8	8	10
Sodium	ppm ASTM D5185m		2	2	1
Potassium	ppm ASTM D5185m	>20	12	18	18
Fuel	% ASTM D3524	>3.0	<1.0	<1.0	0.5

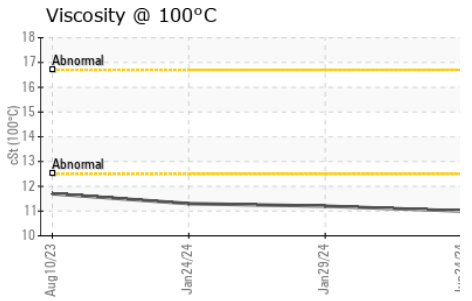
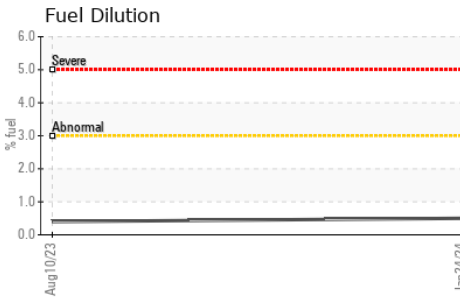
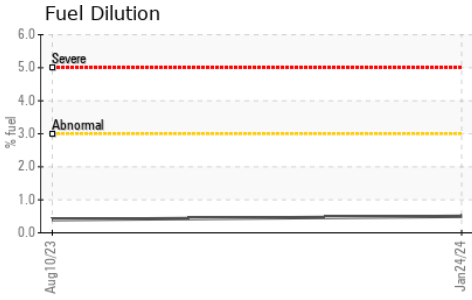
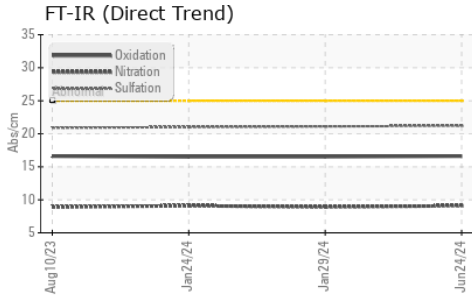
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>4	0.7	0.6	0.6
Nitration	Abs/cm *ASTM D7624	>20	9.1	8.9	9.1
Sulfation	Abs/.1mm *ASTM D7415	>30	21.2	21.1	21.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	16.6	16.5	16.5
Base Number (BN)	mg KOH/g ASTM D2896		6.1	6.0	5.6

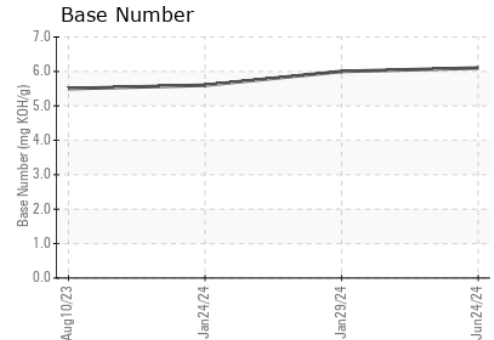
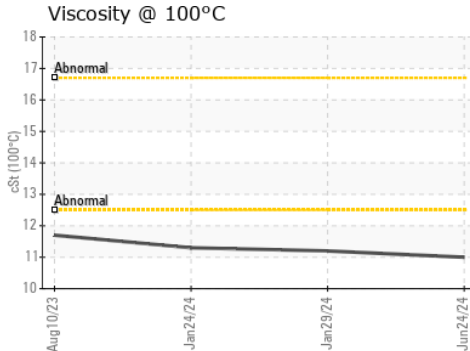
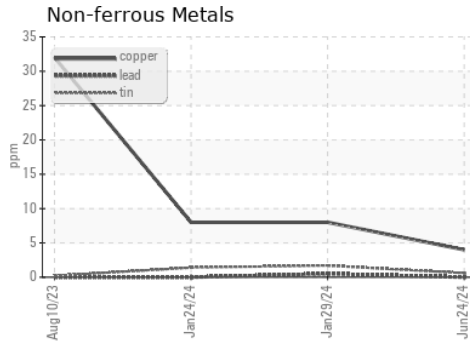
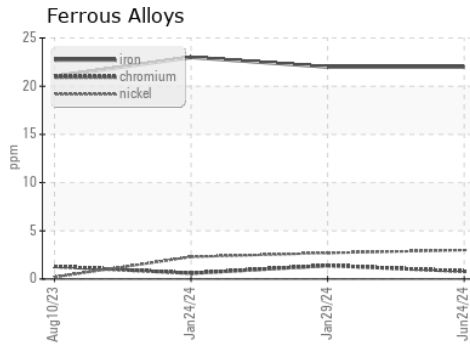
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.0	11.2	11.3

GRAPHS



Certificate L2367

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

Sample No. : PCA0121961

Lab Number : 06220679

Unique Number : 11098876

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Jonathan Hester

NW WHITE & CO - COLUMBIA DIVISION

100 INDEPENDENCE BLVD

COLUMBIA, SC

US 29210

Contact: GEORGE EDWARDS

gedwards@nwwhite.com

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)

T:

F: