



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227014
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0106415	PCA0068351	PCA0068379
Sample Date		Client Info		04 Jan 2024	05 Oct 2023	09 May 2023
Machine Age	mls	Client Info		30000	0	80058
Oil Age	mls	Client Info		30000	30000	0
Filter Age	mls	Client Info		30000	30000	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	33	27	44
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	0	10
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>330	15	12	70
Tin	ppm	ASTM D5185m	>15	1	1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

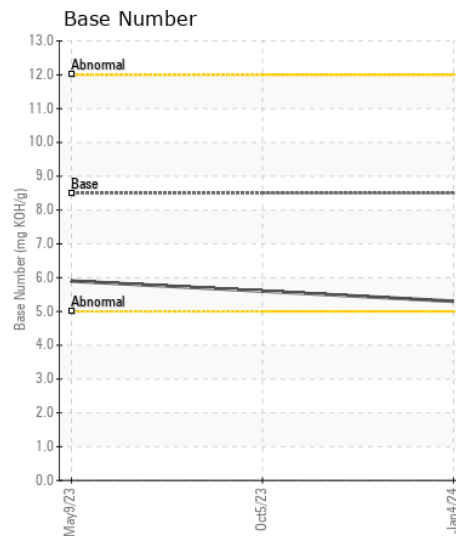
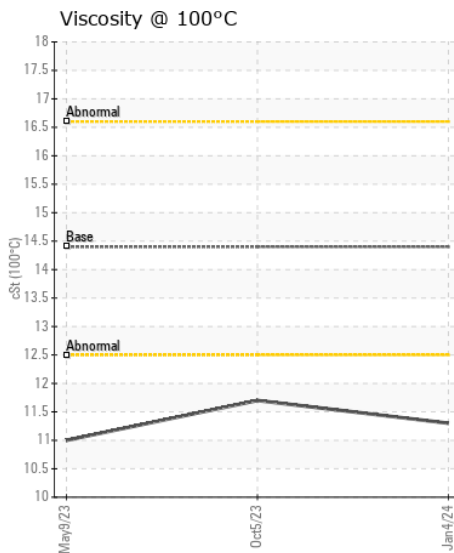
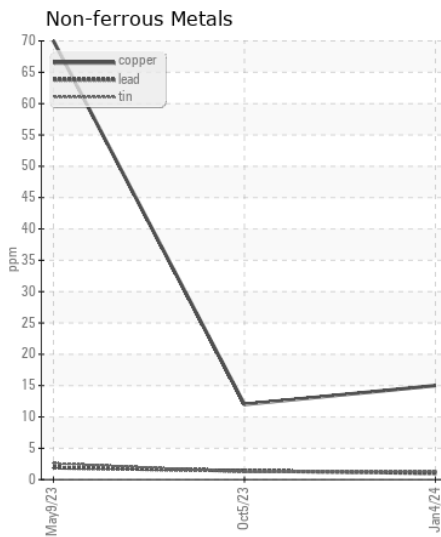
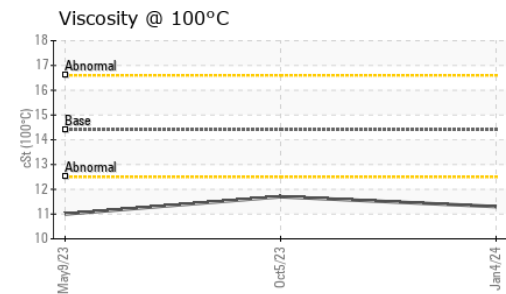
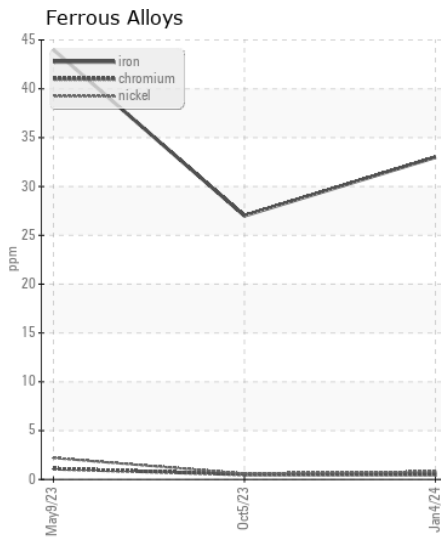
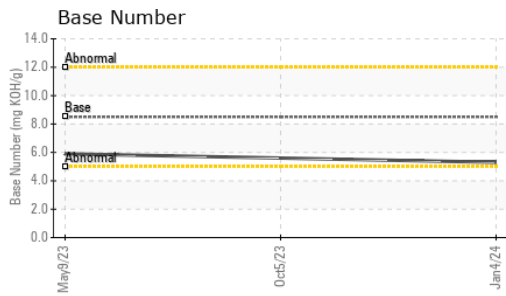
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	8	11
Potassium	ppm	ASTM D5185m	>20	5	7	22
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.5	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.3	26.5
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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	3	<1	4
Boron	ppm	ASTM D5185m	250	2	<1	4
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	66	68	70
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	450	973	905	903
Calcium	ppm	ASTM D5185m	3000	1115	1096	1187
Phosphorus	ppm	ASTM D5185m	1150	1026	925	838
Zinc	ppm	ASTM D5185m	1350	1264	1202	1137
Sulfur	ppm	ASTM D5185m	4250	2810	3108	2724
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	16.8	20.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.3	5.6	5.9
Visc @ 100°C	cSt	ASTM D445	14.4	11.3	11.7	11.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106415 **Received** : 19 Jan 2024
Lab Number : 06065304 **Diagnosed** : 22 Jan 2024
Unique Number : 10836686 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

PERDUE FARMS INC - GARAGE
 189 PERDUE WAY
 CANDOR, NC
 US 27229
 Contact: Service Manager

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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F: