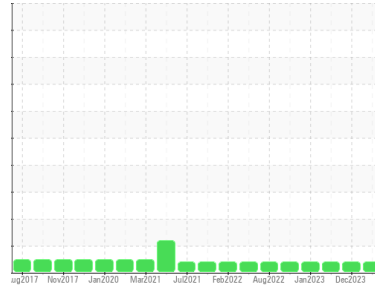


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
20350
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (9 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0116257	PCA0112302	PCA0108155
Sample Date	Client Info		23 Feb 2024	14 Dec 2023	24 Oct 2023
Machine Age	hrs	Client Info	6839	6579	5574
Oil Age	hrs	Client Info	275	300	3613
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			ATTENTION	ATTENTION	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
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 >100	6	1	3
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	2	1
Lead	ppm	ASTM D5185m >40	<1	<1	0
Copper	ppm	ASTM D5185m >330	1	0	0
Tin	ppm	ASTM D5185m >15	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	8	6	16
Barium	ppm	ASTM D5185m 10	1	0	0
Molybdenum	ppm	ASTM D5185m 100	57	56	59
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 450	829	894	887
Calcium	ppm	ASTM D5185m 3000	987	1008	1007
Phosphorus	ppm	ASTM D5185m 1150	973	1009	959
Zinc	ppm	ASTM D5185m 1350	1144	1228	1210
Sulfur	ppm	ASTM D5185m 4250	3422	3125	3063

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	2	3
Sodium	ppm	ASTM D5185m >216	<1	0	1
Potassium	ppm	ASTM D5185m >20	2	0	0

INFRA-RED

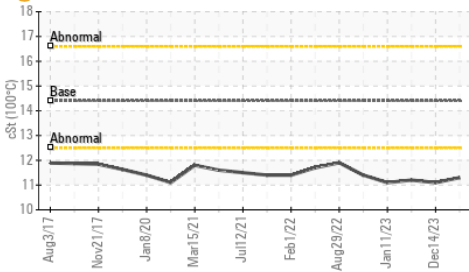
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624 >20	6.1	5.4	5.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.1	16.5	17.0

FLUID DEGRADATION

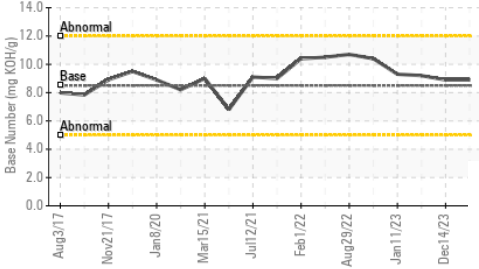
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.2	12.5	12.7
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	8.9	8.9	9.2

OIL ANALYSIS REPORT

● Viscosity @ 100°C



Base Number

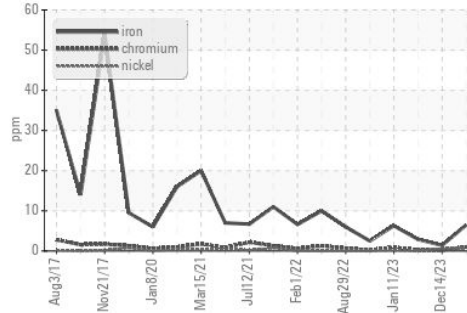


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

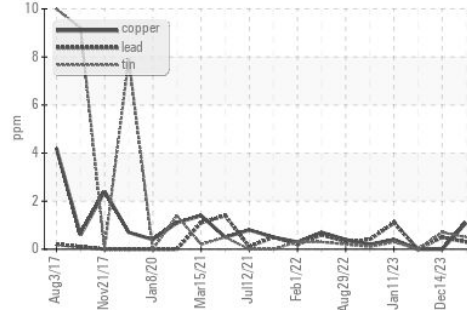
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4 ● 11.3	11.1	11.2

GRAPHS

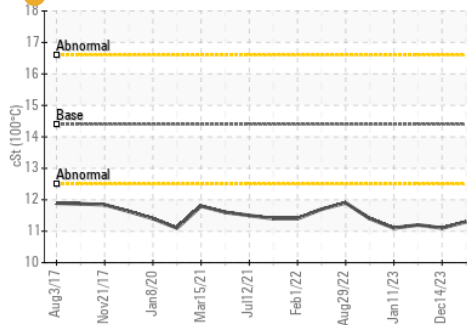
Ferrous Alloys



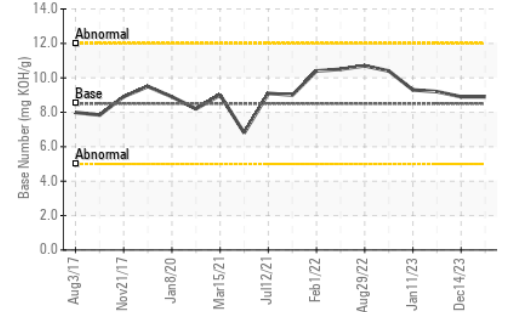
Non-ferrous Metals



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116257 **Received** : 27 Feb 2024
Lab Number : 06101378 **Tested** : 28 Feb 2024
Unique Number : 10899608 **Diagnosed** : 28 Feb 2024 - Don Baldrige
Test Package : FLEET

PERDUE FARMS - DILLON
 2047 HWY 9 WEST
 DILLON, SC
 US 29536
 Contact: KEVIN HOOKS
 kevin.hooks@perdue.com
 T: (843)841-8069
 F: (843)841-8070

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)