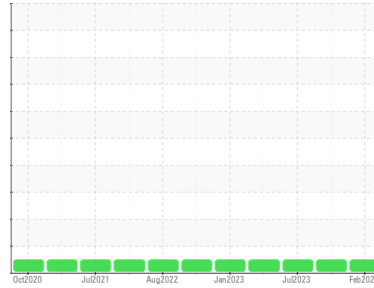


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
220549 []

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

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 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	PCA0098791	PCA0101196	PCA0101188
Sample Date	Client Info	24 Feb 2024	14 Dec 2023	20 Jul 2023
Machine Age	mls Client Info	468004	436781	395163
Oil Age	mls Client Info	0	0	30000
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

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	16	10	14
Chromium	ppm ASTM D5185m >20	2	<1	1
Nickel	ppm ASTM D5185m >4	<1	0	0
Titanium	ppm ASTM D5185m	2	0	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	8	4	2
Lead	ppm ASTM D5185m >40	2	<1	0
Copper	ppm ASTM D5185m >330	<1	<1	<1
Tin	ppm ASTM D5185m >15	<1	0	0
Vanadium	ppm ASTM D5185m	<1	<1	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	16	41	0
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	95	108	64
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 450	1363	668	1051
Calcium	ppm ASTM D5185m 3000	1585	1171	1164
Phosphorus	ppm ASTM D5185m 1150	1421	750	1067
Zinc	ppm ASTM D5185m 1350	1828	901	1301
Sulfur	ppm ASTM D5185m 4250	4803	2774	3452

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	7	5	4
Sodium	ppm ASTM D5185m	3	2	3
Potassium	ppm ASTM D5185m >20	11	5	4

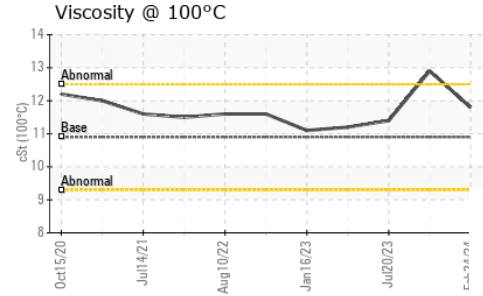
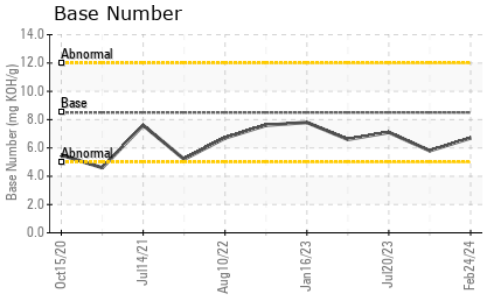
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.3	0.4
Nitration	Abs/cm *ASTM D7624 >20	8.8	9.5	8.7
Sulfation	Abs/.1mm *ASTM D7415 >30	20.8	20.1	20.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.0	18.2	16.8
Base Number (BN)	mg KOH/g ASTM D2896 8.5	6.7	5.8	7.1

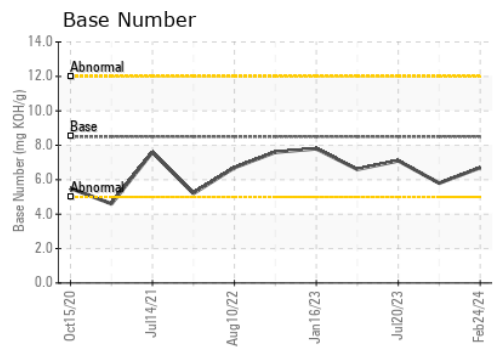
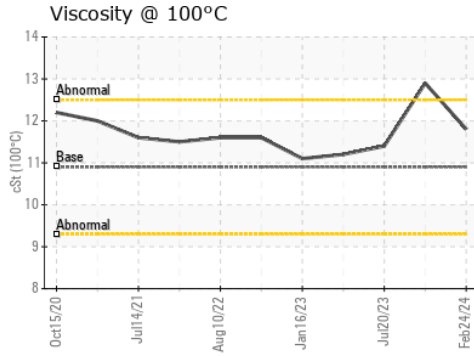
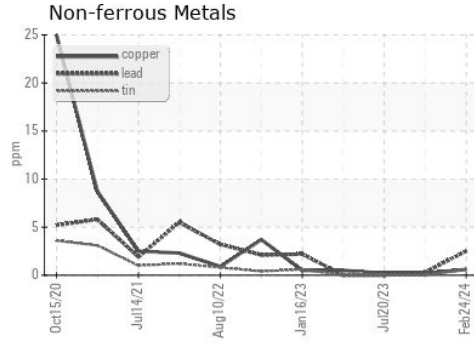
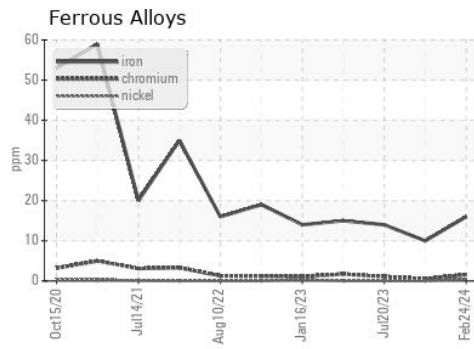
OIL ANALYSIS REPORT



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	10.9	11.8	12.9	11.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098791 **Received** : 18 Mar 2024
Lab Number : **06121378** **Tested** : 19 Mar 2024
Unique Number : 10930211 **Diagnosed** : 20 Mar 2024 - Don Baldrige
Test Package : FLEET

McLane Company - High Plains - 600HP
 1717 East Loop 289
 LUBBOCK, TX
 US 79403
 Contact: RITA GARCIA
 rita.garcia@mcclaneco.com
 T: (806)766-2902
 F:

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)