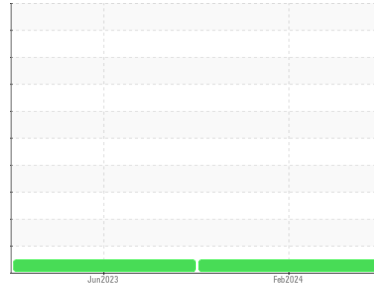


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
222069 []

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		PCA0101233	PCA0073110	---
Sample Date	Client Info		02 Feb 2024	02 Jun 2023	---
Machine Age	mls	Client Info	126138	45300	---
Oil Age	mls	Client Info	0	30000	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	26	53	---
Chromium	ppm	ASTM D5185m >20	2	4	---
Nickel	ppm	ASTM D5185m >4	<1	<1	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >3	0	<1	---
Aluminum	ppm	ASTM D5185m >20	19	64	---
Lead	ppm	ASTM D5185m >40	<1	0	---
Copper	ppm	ASTM D5185m >330	40	296	---
Tin	ppm	ASTM D5185m >15	<1	3	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	11	27	---
Barium	ppm	ASTM D5185m 10	0	0	---
Molybdenum	ppm	ASTM D5185m 100	64	51	---
Manganese	ppm	ASTM D5185m	<1	5	---
Magnesium	ppm	ASTM D5185m 450	921	638	---
Calcium	ppm	ASTM D5185m 3000	1159	1809	---
Phosphorus	ppm	ASTM D5185m 1150	950	826	---
Zinc	ppm	ASTM D5185m 1350	1231	1018	---
Sulfur	ppm	ASTM D5185m 4250	2555	2470	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	8	---
Sodium	ppm	ASTM D5185m	2	8	---
Potassium	ppm	ASTM D5185m >20	40	165	---

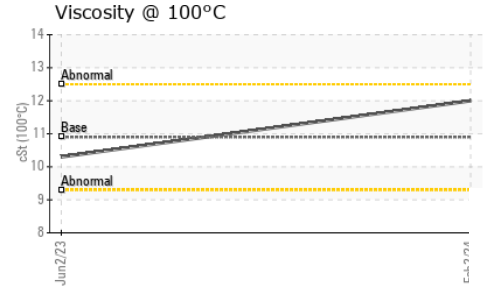
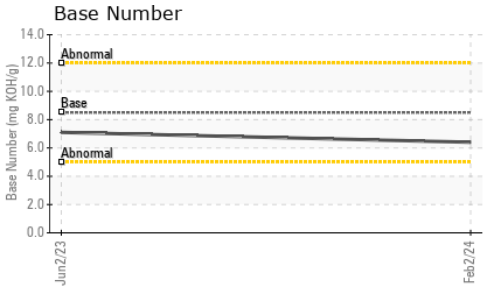
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.7	---
Nitration	Abs/cm	*ASTM D7624 >20	8.9	11.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.1	24.5	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.7	24.9	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	6.4	7.1	---

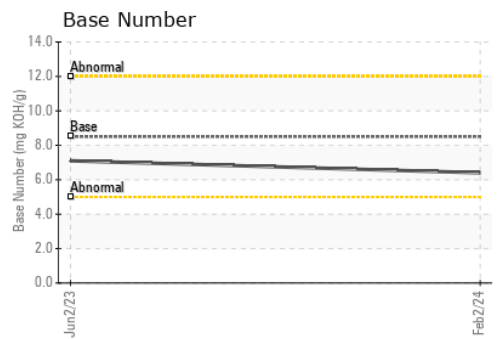
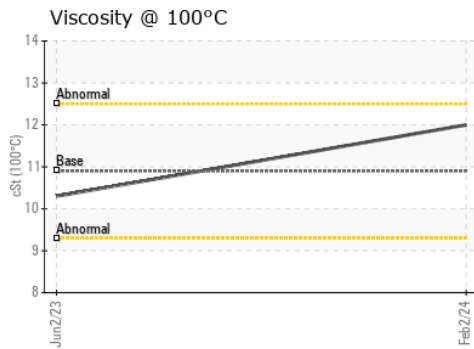
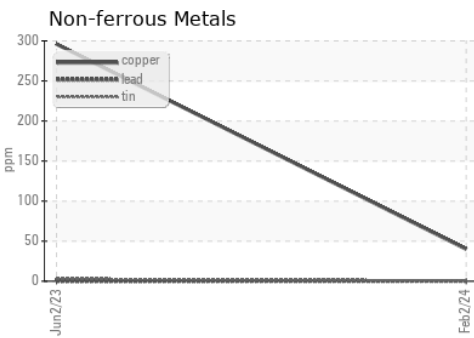
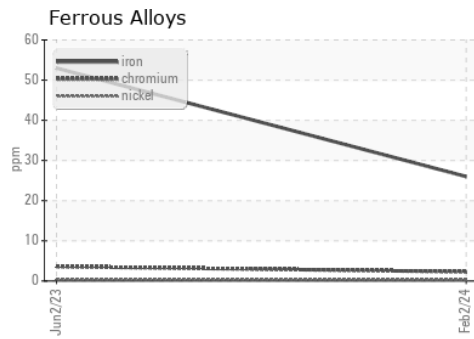
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	12.0	10.3	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101233 **Received** : 18 Mar 2024
Lab Number : **06121377** **Tested** : 19 Mar 2024
Unique Number : 10930210 **Diagnosed** : 19 Mar 2024 - Wes Davis
Test Package : FLEET

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

Certificate L2367
 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)