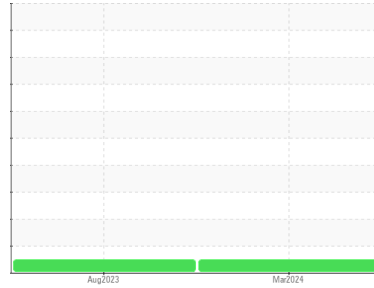




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[W07014410-3 KEARNEYS]
 Machine Id
AVANT 423 111861
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

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	ML0000933	VCP409659	---
Sample Date	Client Info	25 Mar 2024	29 Aug 2023	---
Machine Age	hrs	274	121	---
Oil Age	hrs	0	121	---
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	14	16	---
Chromium	ppm ASTM D5185m >20	<1	<1	---
Nickel	ppm ASTM D5185m >4	1	0	---
Titanium	ppm ASTM D5185m	<1	0	---
Silver	ppm ASTM D5185m >3	0	0	---
Aluminum	ppm ASTM D5185m >20	4	5	---
Lead	ppm ASTM D5185m >40	0	0	---
Copper	ppm ASTM D5185m >330	3	13	---
Tin	ppm ASTM D5185m >15	<1	0	---
Vanadium	ppm ASTM D5185m	<1	0	---
Cadmium	ppm ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	49	<1	---
Barium	ppm ASTM D5185m 10	0	0	---
Molybdenum	ppm ASTM D5185m 100	50	16	---
Manganese	ppm ASTM D5185m	<1	2	---
Magnesium	ppm ASTM D5185m 450	773	855	---
Calcium	ppm ASTM D5185m 3000	1174	1281	---
Phosphorus	ppm ASTM D5185m 1150	700	1009	---
Zinc	ppm ASTM D5185m 1350	880	1234	---
Sulfur	ppm ASTM D5185m 4250	2774	3769	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	9	---
Sodium	ppm ASTM D5185m	4	1	---
Potassium	ppm ASTM D5185m >20	2	0	---

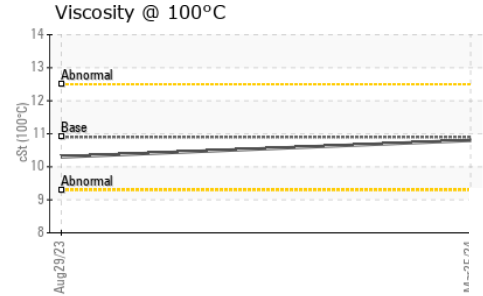
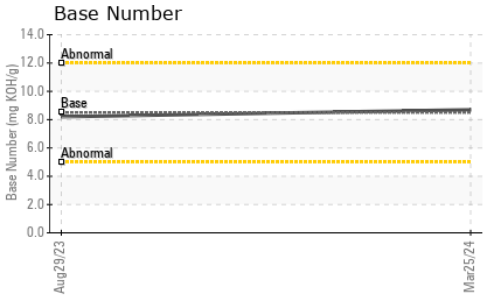
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.2	---
Nitration	Abs/cm *ASTM D7624 >20	7.8	5.1	---
Sulfation	Abs/.1mm *ASTM D7415 >30	19.3	14.7	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.2	8.9	---
Base Number (BN)	mg KOH/g ASTM D2896 8.5	8.7	8.2	---

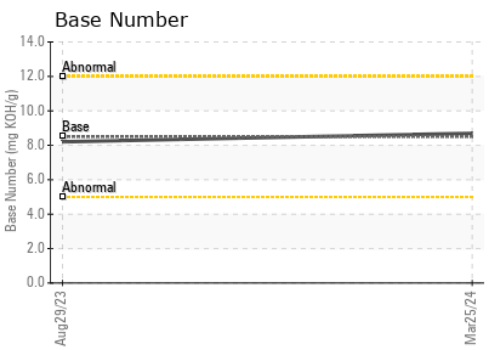
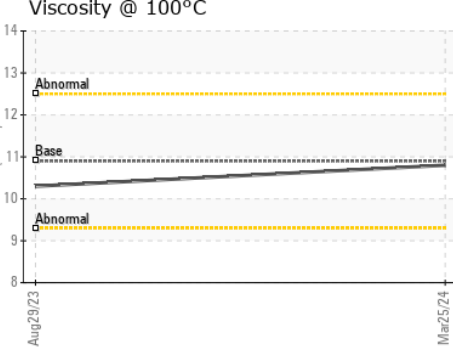
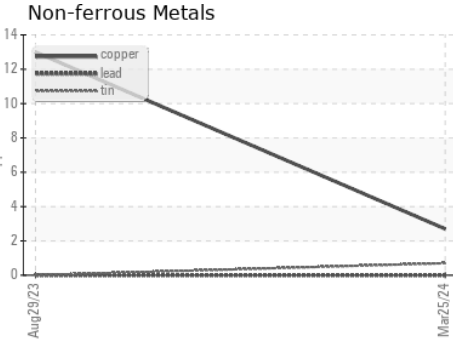
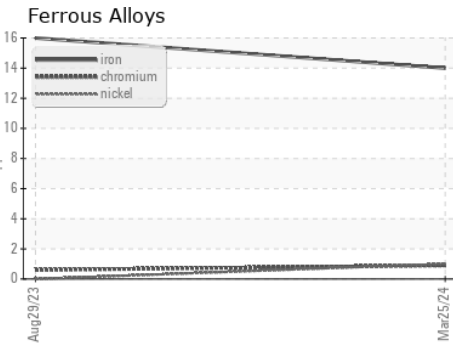
OIL ANALYSIS REPORT



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	10.8	10.3	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000933
Lab Number : 06131633
Unique Number : 10951098
Test Package : CONST (Additional Tests: TBN)

Received : 28 Mar 2024
Tested : 28 Mar 2024
Diagnosed : 02 Apr 2024 - Don Baldrige

McCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@McCLUNG-LOGAN.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: (804)266-1611