McCLUNG-LOGAN EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
TAKEUCHI TL10V2 410007383
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

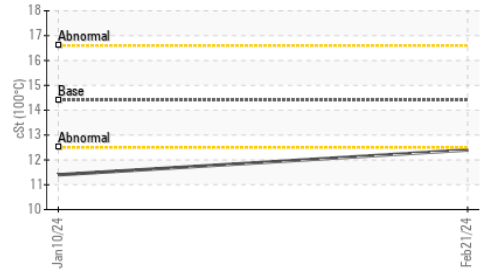
There is no indication of any contamination in the oil.

FLUID CONDITION

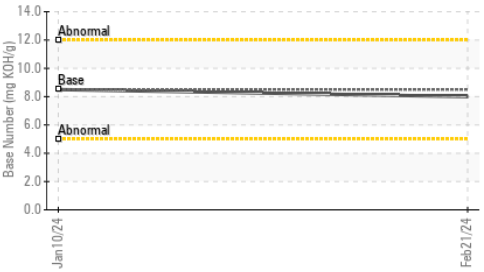
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0000830	ML0000502	---
Sample Date		Client Info		21 Feb 2024	10 Jan 2024	---
Machine Age	hrs	Client Info		148	30	---
Oil Age	hrs	Client Info		118	0	---
Filter Age	hrs	Client Info		118	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	8	6	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	15	21	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	8	12	---
Potassium	ppm	ASTM D5185m	>20	5	<1	---
Fuel	%	ASTM D3524	>5	<1.0	0.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	5.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	16.4	---
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	---
Sodium	ppm	ASTM D5185m	>158	9	11	---
Boron	ppm	ASTM D5185m	250	57	15	---
Barium	ppm	ASTM D5185m	10	<1	2	---
Molybdenum	ppm	ASTM D5185m	100	8	10	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m	450	80	75	---
Calcium	ppm	ASTM D5185m	3000	2323	2201	---
Phosphorus	ppm	ASTM D5185m	1150	912	994	---
Zinc	ppm	ASTM D5185m	1350	1116	1069	---
Sulfur	ppm	ASTM D5185m	4250	3616	3808	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	10.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	8.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 12.4	▲ 11.4	---

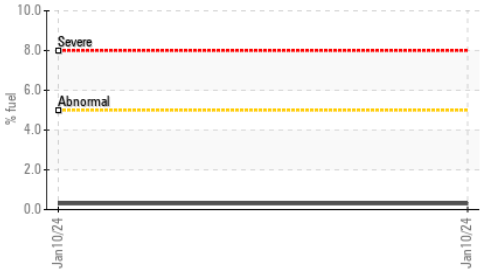
Viscosity @ 100°C



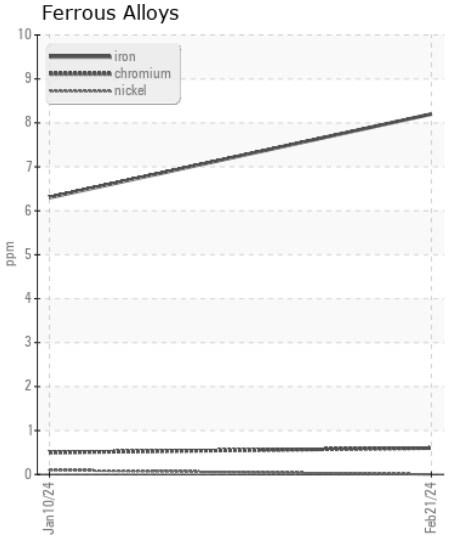
Base Number



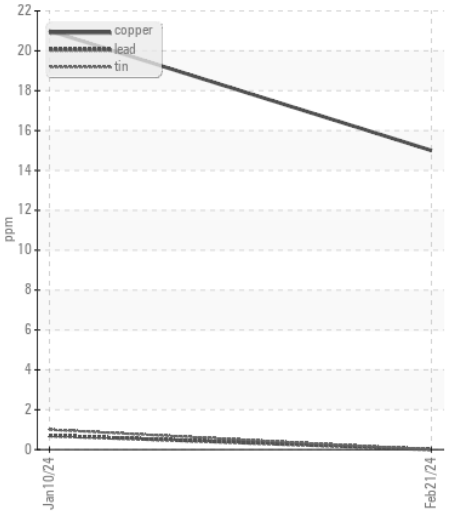
Fuel Dilution



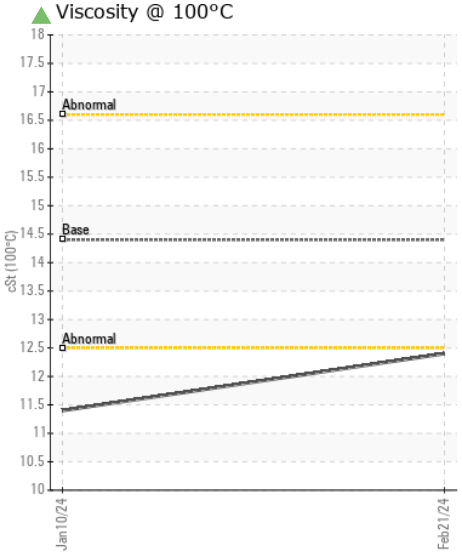
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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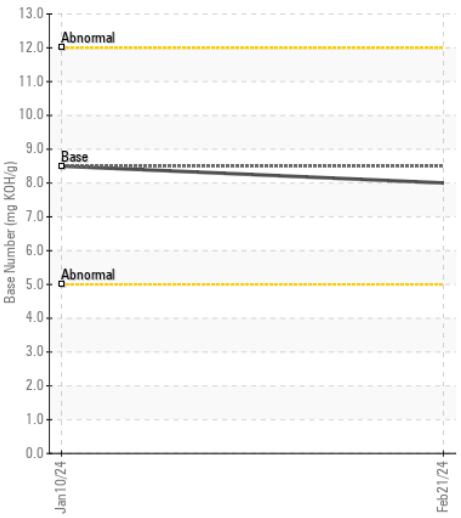

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000830
Lab Number : 06098927
Unique Number : 10897157
Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Don Baldridge

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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