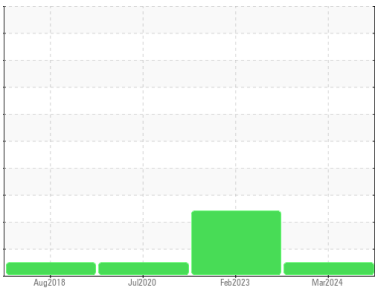
McCLUNG LOGAN EQUIPMENT COMPANY

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
VOLVO A45G 342044
Component
Bogie/Center Axle
Fluid
GEAR OIL SAE 75W80 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment:
Top Up Amount: .5 GAL)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**ML0000811**	VCP401320	VCP276066
Sample Date		Client Info		**29 Mar 2024**	02 Feb 2023	10 Jul 2020
Machine Age	hrs	Client Info		**10397**	8248	4237
Oil Age	hrs	Client Info		**2149**	0	0
Oil Changed		Client Info		**Oil Added**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

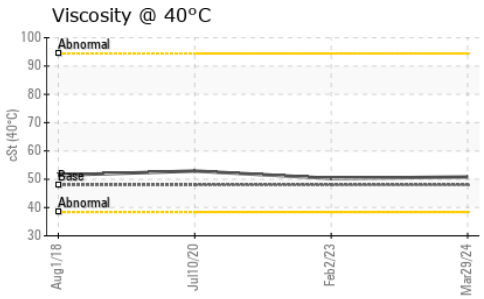
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>900	**220**	771	281
Chromium	ppm	ASTM D5185m	>20	**2**	9	3
Nickel	ppm	ASTM D5185m	>10	**1**	4	1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>30	**6**	17	6
Lead	ppm	ASTM D5185m	>50	**0**	0	<1
Copper	ppm	ASTM D5185m	>150	**4**	6	3
Tin	ppm	ASTM D5185m	>20	**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	<1
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	400	**321**	313	200
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**<1**	1	0
Manganese	ppm	ASTM D5185m		**2**	9	6
Magnesium	ppm	ASTM D5185m	12	**4**	2	2
Calcium	ppm	ASTM D5185m	150	**52**	47	40
Phosphorus	ppm	ASTM D5185m	1650	**2398**	2380	2137
Zinc	ppm	ASTM D5185m	125	**26**	32	34
Sulfur	ppm	ASTM D5185m	22500	**28845**	25123	24826

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**24**	58	20
Sodium	ppm	ASTM D5185m		**3**	6	3
Potassium	ppm	ASTM D5185m	>20	**3**	6	0

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

OIL ANALYSIS REPORT

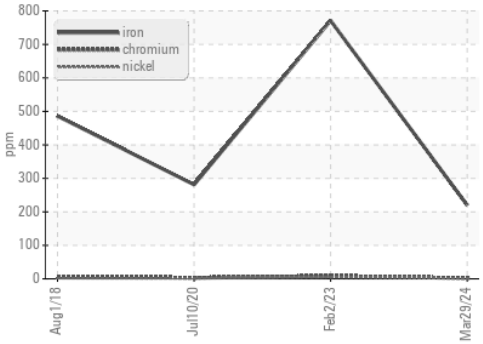


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48	**50.8**	50.3	52.9

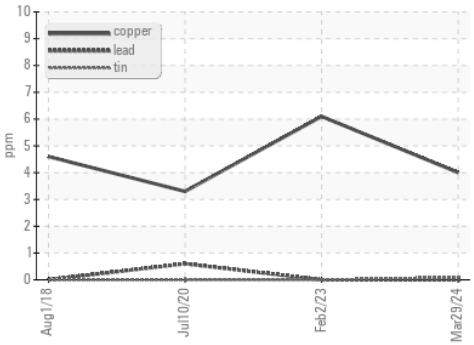
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

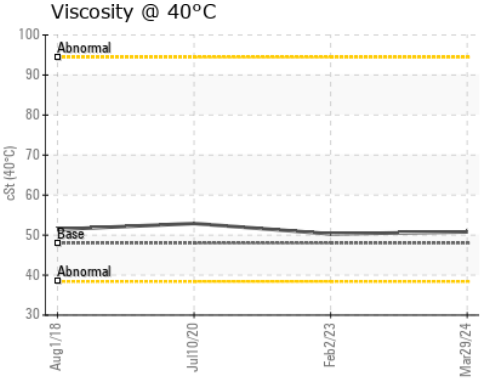
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000811
Lab Number : 06138177
Unique Number : 10962985
Test Package : CONST

Received : 03 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 06 Apr 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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