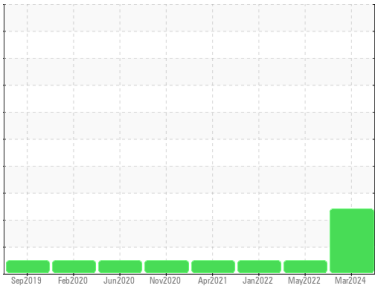
OIL ANALYSIS REPORT

Area
OKLAHOMA/102/EG - MOTOR GRADER
Machine Id
78.256 [OKLAHOMA^102^EG - MOTOR GRADER]
Component
Right Tandem
Fluid
NOT GIVEN (--- GAL)

Sample Rating Trend



WATER

DIAGNOSIS

▲ Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear
The copper level is abnormal. All other component wear rates are normal.

▲ Contamination
There is a light concentration of water present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0886898**	WC0686871	WC0642909
Sample Date		Client Info		**11 Mar 2024**	20 May 2022	18 Jan 2022
Machine Age	hrs	Client Info		**8775**	5860	5480
Oil Age	hrs	Client Info		**1000**	981	500
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>425	**163**	58	60
Chromium	ppm	ASTM D5185m	>5	**2**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>5	**4**	2	<1
Lead	ppm	ASTM D5185m		**<1**	0	0
Copper	ppm	ASTM D5185m	>8	▲ **50**	<1	<1
Tin	ppm	ASTM D5185m		**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

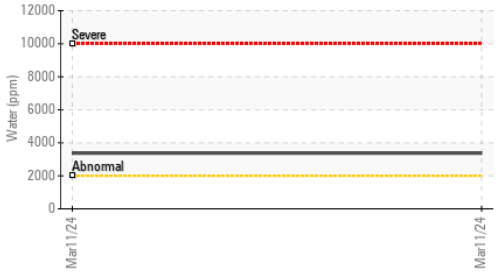
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**24**	23	33
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	1	1
Manganese	ppm	ASTM D5185m		**2**	<1	<1
Magnesium	ppm	ASTM D5185m		**29**	21	22
Calcium	ppm	ASTM D5185m		**2729**	2978	3105
Phosphorus	ppm	ASTM D5185m		**1040**	974	1030
Zinc	ppm	ASTM D5185m		**1266**	1160	1237
Sulfur	ppm	ASTM D5185m		**4727**	5920	4873

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**19**	5	5
Sodium	ppm	ASTM D5185m		**8**	2	1
Potassium	ppm	ASTM D5185m	>20	**4**	0	0
Water	%	ASTM D6304	>0.2	▲ **0.337**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **3370**	---	---

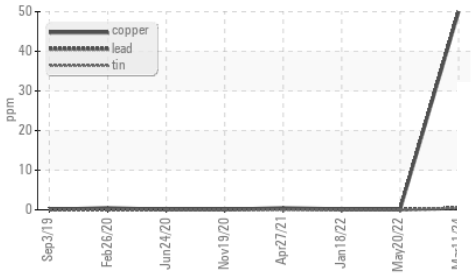
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Sand/Dirt	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	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

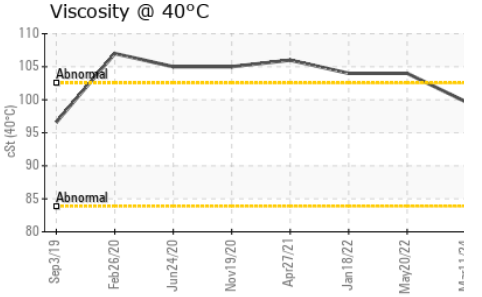
Water (KF)



Non-ferrous Metals



Viscosity @ 40°C

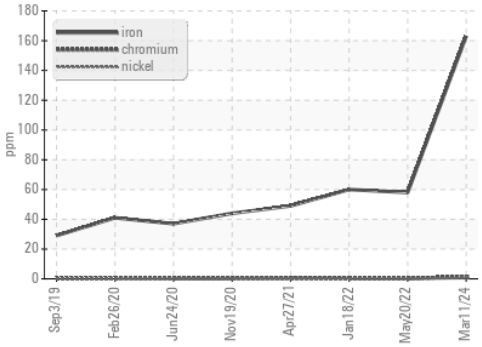


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**99.7**	104	104

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



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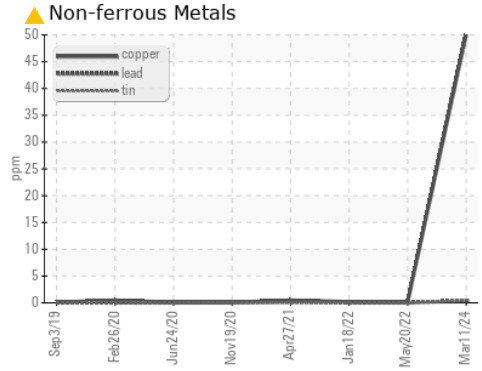
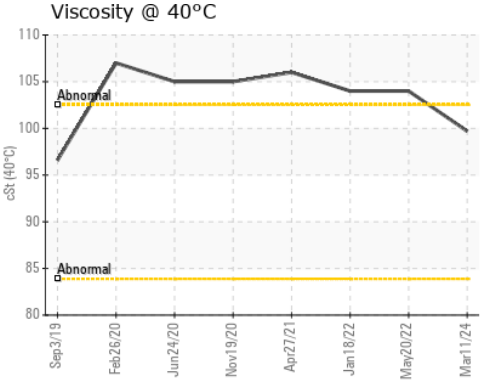


Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886898
Lab Number : 06132397
Unique Number : 10951862
Test Package : CONST (Additional Tests: KF)

Received : 28 Mar 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 2024 - Jonathan Hester

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)

SHERWOOD CONSTRUCTION CO INC
3219 WEST MAY ST
WICHITA, KS
US 67213
Contact: DOUG KING
doug.king@sherwood.net
T: (316)617-3161
F: x: