



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/102/DR - MOTOR GRADER
Machine Id
78.80 [OKLAHOMA^102^DR - MOTOR GRADER]
Component
Right Tandem
Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0834041	WC0627744	WC0481824
Sample Date		Client Info		15 Aug 2023	12 Nov 2021	17 Aug 2020
Machine Age	hrs	Client Info		1820	1410	22872
Oil Age	hrs	Client Info		1000	1000	1000
Filter Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>425	51	43	33
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	4	2	0
Lead	ppm	ASTM D5185m		0	1	0
Copper	ppm	ASTM D5185m	>8	12	0	1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

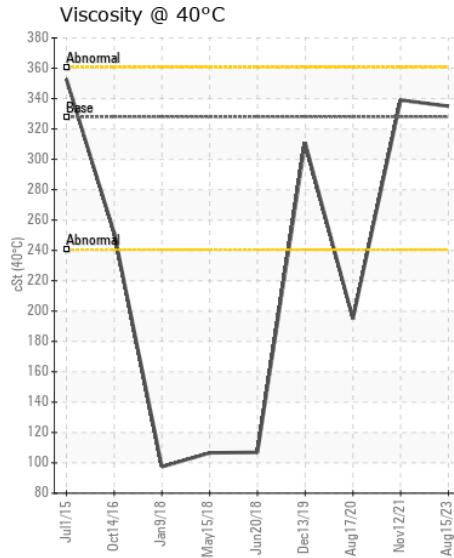
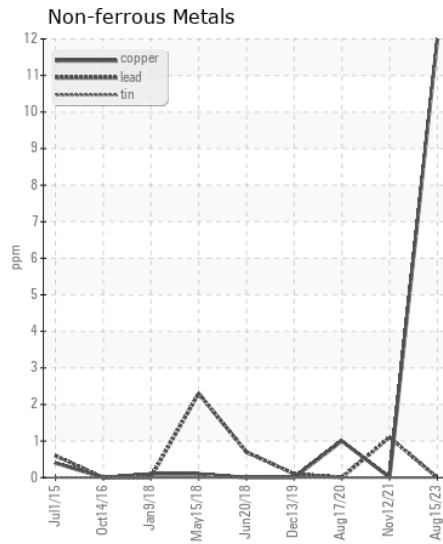
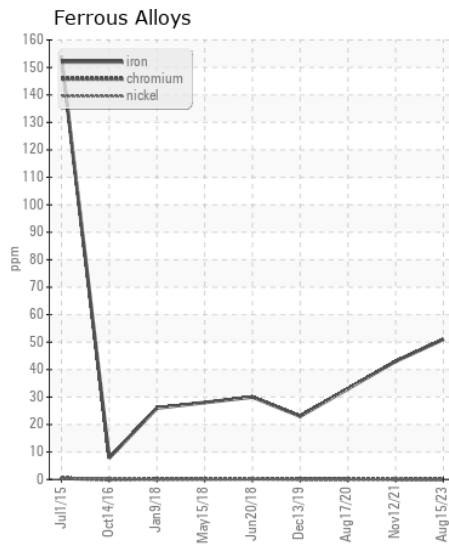
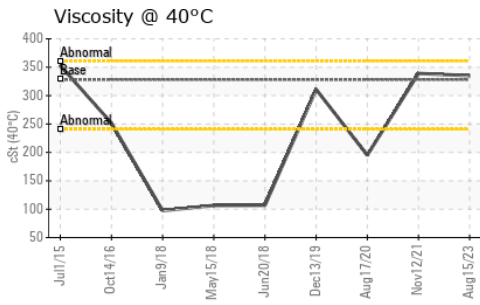
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	10	4	6
Potassium	ppm	ASTM D5185m	>20	0	3	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	2	3
Boron	ppm	ASTM D5185m		184	105	183
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		10	0	15
Calcium	ppm	ASTM D5185m		105	62	243
Phosphorus	ppm	ASTM D5185m		1051	722	913
Zinc	ppm	ASTM D5185m		25	10	85
Sulfur	ppm	ASTM D5185m		34595	25765	25709
Visc @ 40°C	cSt	ASTM D445	328	335	339	195



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834041
Lab Number : 05937626
Unique Number : 10622897
Test Package : CONST

Received : 29 Aug 2023
Tested : 30 Aug 2023
Diagnosed : 30 Aug 2023 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213

Contact: JIMMY DERAMUS
 jimmy.deramus@sherwood.net
 T: (918)691-3306

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)

F: x: