



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
COLORADO/443/EG - MOTOR GRADER
Machine Id
78.250 [COLORADO^443^EG - MOTOR GRADER]
Component
Right Drive Chain Case
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0798985	WC0672183	WC0595231
Sample Date		Client Info		31 Jul 2023	02 Mar 2022	23 Sep 2021
Machine Age	hrs	Client Info		10888	9877	9418
Oil Age	hrs	Client Info		0	9067	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	170	94	49
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		5	<1	2
Lead	ppm	ASTM D5185m		<1	<1	0
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m		<1	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

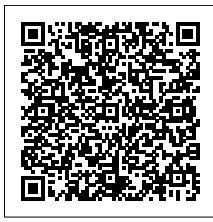
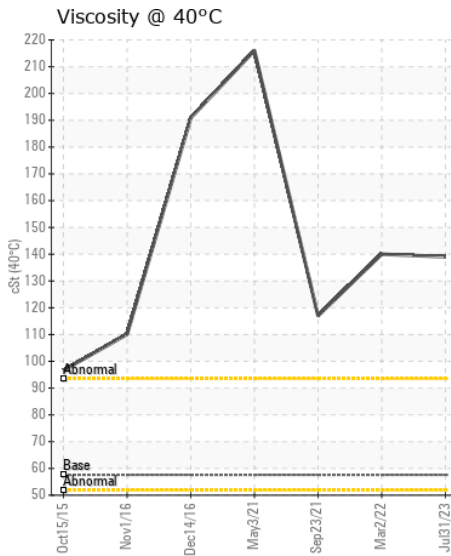
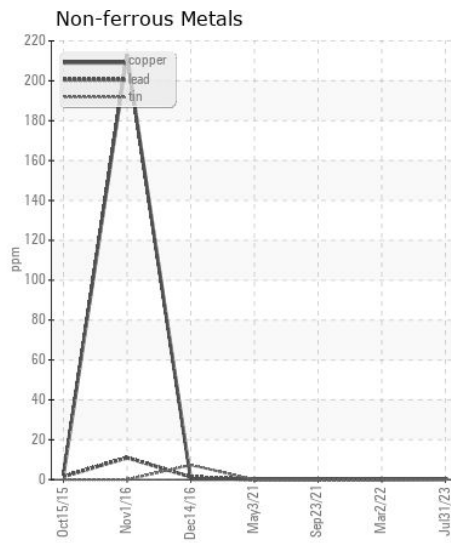
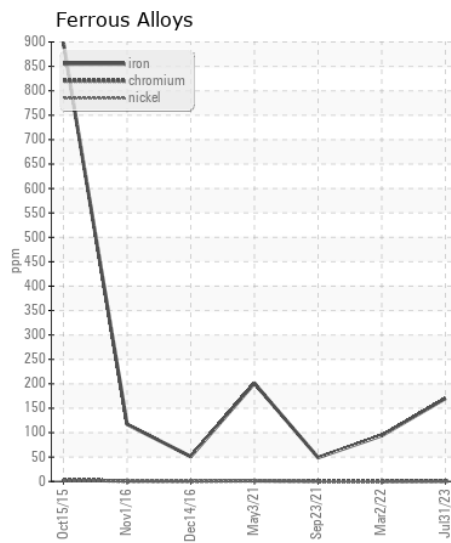
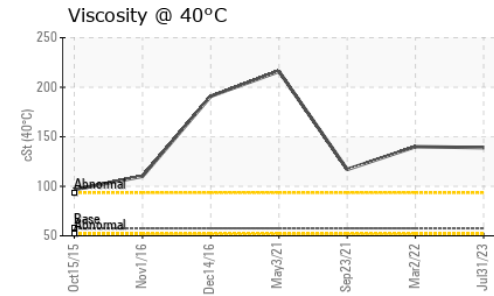
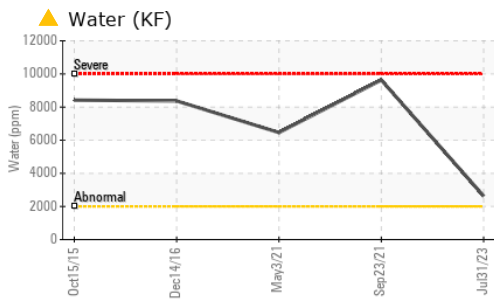
Appearance is hazy. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		15	9	7
Potassium	ppm	ASTM D5185m	>20	2	2	6
Water	%	ASTM D6304	>0.2	▲ 0.263	---	▲ 0.963
ppm Water	ppm	ASTM D6304	>2000	▲ 2630	---	▲ 9630
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	● HAZY	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	1	3
Boron	ppm	ASTM D5185m		7	3	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	<1
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		15	11	10
Calcium	ppm	ASTM D5185m		3019	3265	3009
Phosphorus	ppm	ASTM D5185m		918	1036	796
Zinc	ppm	ASTM D5185m		1056	1227	992
Sulfur	ppm	ASTM D5185m		6087	4924	6261
Visc @ 40°C	cSt	ASTM D445	57.6	139	140	117



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0798985 **Received** : 03 Aug 2023
Lab Number : 05915717 **Tested** : 07 Aug 2023
Unique Number : 10587631 **Diagnosed** : 07 Aug 2023 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: JIMMY DERAMUS
 jimmy.deramus@sherwood.net

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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