

# **OIL ANALYSIS REPORT**

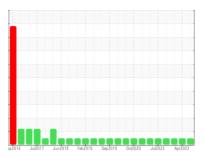
## Sample Rating Trend

# **NORMAL**



# OKLAHOMA/115/EG - LOADER 48.83L [OKLAHOMA^115^EG - LOADER] Component Rear Differential

**MOBIL MOBILGEAR 629 (--- GAL)** 





## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

## **Fluid Condition**

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

Sample Number   Client Info   WC0848990   WC0738505   WC079255   Sample Date   Client Info   20 Sep 2023   17 Apr 2023   28 Feb 203   Machine Age   hrs   Client Info   19800   10346   100999   10346   10099   10346   10099   10346   10099   10346   100	29 ( GAL)		sp2016 Jul2	017 Jun2018 Feb2019	Sep2019 Oct2020 Jul2022	Apr2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         19800         10346         10099           Oil Age         hrs         Client Info         18858         10346         10000           Oil Changed         Client Info         NoRMAL         NORMAL         NORMAL         NORMAL           Sample Status         Image: Client Info         NoRMAL         NORMAL         NORMAL         NORMAL           WEAR METALS         method         Imitibase         current         history1         history1           Iron         ppm         ASTM D5185m         >500         105         29         23           Chromium         ppm         ASTM D5185m         >3         0         <1         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >13         0         0         0           Copper         ppm         ASTM D5185m         10         0         0         0<	Sample Number		Client Info		WC0848990	WC0738505	WC0792510
Oil Age         hrs         Client Info         18858         10346         1000           Oil Changed         Client Info         Not Changd         N/A         Changed           Sample Status         method         limit/base         current         historyl         historyl           Iron         ppm         ASTM D5185m         >500         105         29         23           Chromium         ppm         ASTM D5185m         >3         0         <1         0           Nickel         ppm         ASTM D5185m         >3         0         <1         0           Silver         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >3         0         0         0           Aluminum         ppm         ASTM D5185m         >30         6         0         1           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         5         <1         0         0         0           Tin         ppm         ASTM D5185m         0         0         0         0	Sample Date		Client Info		20 Sep 2023	17 Apr 2023	28 Feb 2023
Oil Changed   Cilient Info   Not Changed   NORMAL   NOR	Machine Age	hrs	Client Info		19800	10346	10099
NORMAL   N	Oil Age	hrs	Client Info		18858	10346	1000
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >500         105         29         23           Chromium         ppm         ASTM D5185m         >3         0         <1	Oil Changed		Client Info		Not Changd	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >3         0         <1         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Tittanium         ppm         ASTM D5185m         >2         0         0         0           Sillver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >30         6         0         1           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >103         14         28         22         21           Vanadium         ppm         ASTM D5185m         >5         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>500	105	29	23
Titanium	Chromium	ppm	ASTM D5185m	>3	0	<1	0
Silver	Nickel	ppm	ASTM D5185m	>3	0	0	0
ASTM D5185m   STM D5185m   ST	Titanium	ppm	ASTM D5185m	>2	0	0	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >103         14         28         22           Tin         ppm         ASTM D5185m         >5         <1	Aluminum	ppm	ASTM D5185m	>30	6	0	1
Tin	Lead	ppm	ASTM D5185m	>13	0	0	0
Tin	Copper	ppm	ASTM D5185m	>103	14	28	22
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0         1           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         3         1           Magnesium         ppm         ASTM D5185m         31         289         182           Phosphorus         ppm         ASTM D5185m         502         514         515           Zinc         ppm         ASTM D5185m         8         141         80           Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         24         20					<1	0	0
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0         1           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         -1         <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium		ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		0	0	1
Manganese         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium         ppm         ASTM D5185m         0         3         1           Calcium         ppm         ASTM D5185m         31         289         182           Phosphorus         ppm         ASTM D5185m         502         514         515           Zinc         ppm         ASTM D5185m         8         141         80           Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         >20         0         <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium         ppm         ASTM D5185m         31         289         182           Phosphorus         ppm         ASTM D5185m         502         514         515           Zinc         ppm         ASTM D5185m         8         141         80           Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         >20         0         <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus         ppm         ASTM D5185m         502         514         515           Zinc         ppm         ASTM D5185m         8         141         80           Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         0         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         <1         <1           VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         NONE         MODER         NONE           Vellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE	Magnesium	ppm	ASTM D5185m		0	3	1
Zinc         ppm         ASTM D5185m         8         141         80           Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         >0         0         <1	Calcium	ppm	ASTM D5185m		31	289	182
Sulfur         ppm         ASTM D5185m         1370         1946         1937           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         0         0         <1	Phosphorus	ppm	ASTM D5185m		502	514	515
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         >20         0         0         <1	Zinc	ppm	ASTM D5185m		8	141	80
Silicon         ppm         ASTM D5185m         >100         24         20         18           Sodium         ppm         ASTM D5185m         0         0         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         <1         <1           VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         NONE         MODER         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           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         NORML         NORML         NORML           Odor         <	Sulfur	ppm	ASTM D5185m		1370	1946	1937
Sodium         ppm         ASTM D5185m         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <b>0</b> <1 <1  VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE NONE NONE NONE NONE  Yellow Metal scalar *Visual NONE NONE NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE NONE NONE  Silt scalar *Visual NONE NONE NONE NONE NONE  Debris scalar *Visual NONE LIGHT 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 >.2 NEG NEG NEG  Free Water scalar *Visual NEG NEG NEG	Silicon	ppm	ASTM D5185m	>100	24	20	18
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		0	0	<1
White Metal scalar *Visual NONE NONE MODER NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Yellow Metal       scalar       *Visual       NONE       NO	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT 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 >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE LIGHT 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 >.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >.2     NEG     NEG     NEG       Free Water     scalar     *Visual     NEG     NEG     NEG	Appearance	scalar	*Visual			NORML	NORML
Emulsified Water       scalar       *Visual       >.2       NEG       NEG       NEG         Free Water       scalar       *Visual       NEG       NEG       NEG	Odor	scalar		NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG							
FLUID PROPERTIES method limit/base current history1 history	Free Water						
1 20.5 . 1.0 - 2111120 motified minimises current history	FLUID PROPERT	IES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

ASTM D445 150

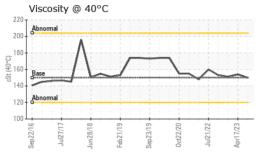
150

154

151

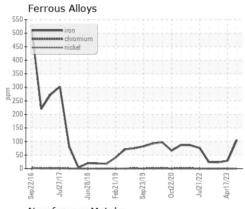


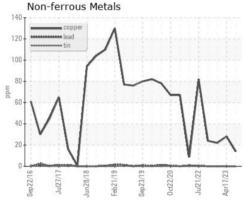
## **OIL ANALYSIS REPORT**

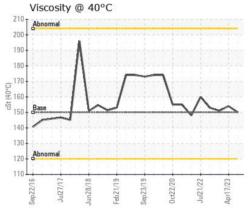


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10669065 Test Package : CONST

: WC0848990 : 05962514

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Sep 2023 Diagnosed : 28 Sep 2023 Diagnostician : Don Baldridge

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

doug.king@sherwood.net T: (316)617-3161

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: