



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/3/EG - LOADER
Machine Id
50.01L [OKLAHOMA^3^EG - LOADER]
Component
Front Right Final Drive
Fluid
MOBIL MOBILGEAR 629 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0702126	WC0481946	WC0411376
Sample Date		Client Info		11 Jul 2022	05 Aug 2020	04 Dec 2019
Machine Age	hrs	Client Info		12109	10185	6595
Oil Age	hrs	Client Info		4939	3590	2309
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>800	462	25	146
Chromium	ppm	ASTM D5185m	>10	2	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>15	0	0	<1
Silver	ppm	ASTM D5185m	>2	2	0	0
Aluminum	ppm	ASTM D5185m	>75	7	<1	2
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	▲ 92	6	34
Tin	ppm	ASTM D5185m	>8	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	2
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

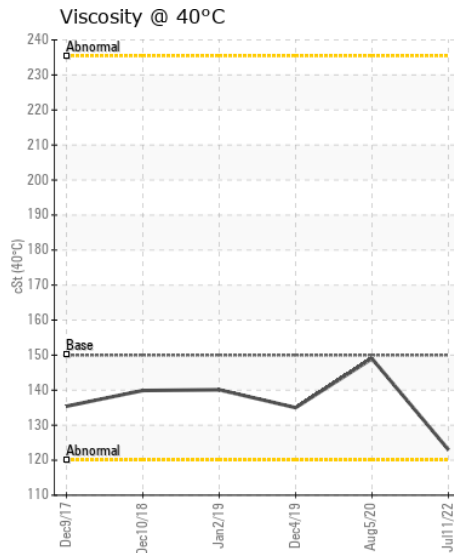
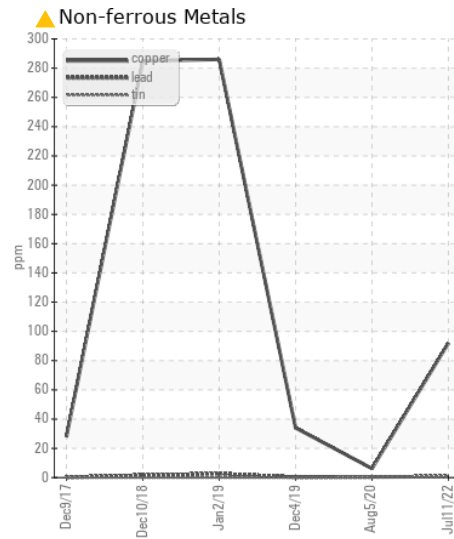
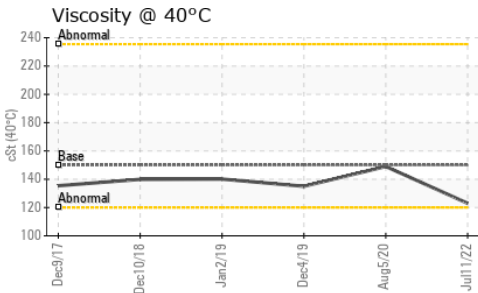
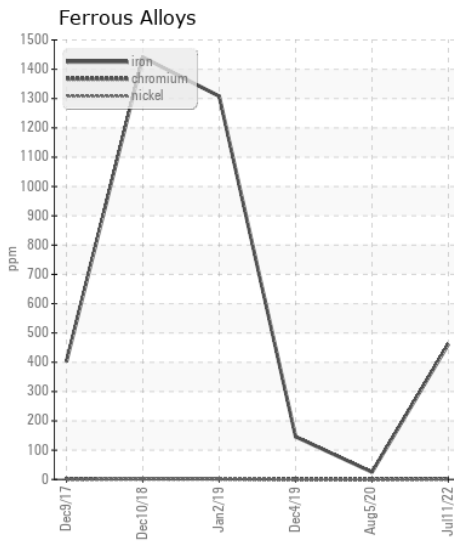
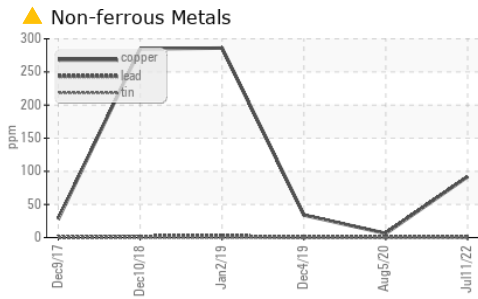
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	17	27	13
Potassium	ppm	ASTM D5185m	>20	0	<1	5
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		7	0	<1
Boron	ppm	ASTM D5185m		11	1	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		4	<1	2
Magnesium	ppm	ASTM D5185m		6	0	4
Calcium	ppm	ASTM D5185m		1264	37	605
Phosphorus	ppm	ASTM D5185m		647	397	489
Zinc	ppm	ASTM D5185m		533	18	244
Sulfur	ppm	ASTM D5185m		2535	510	1236
Visc @ 40°C	cSt	ASTM D445	150	123	149	135



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0702126
Lab Number : 05592895
Unique Number : 10052342
Test Package : CONST

Received : 15 Jul 2022
Tested : 17 Jul 2022
Diagnosed : 18 Jul 2022 - Don Baldrige

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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)