

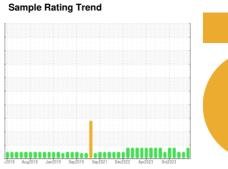
**OIL ANALYSIS REPORT** 

OIL Machine Id

# GB-6150 (S/N WELL CLEAN UP PUMP)

Gearbox

**MOBIL MOBILGEAR 632 (18 GAL)** 





### Recommendation

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

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

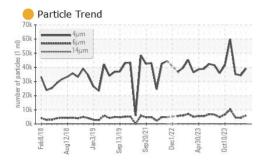
## **Fluid Condition**

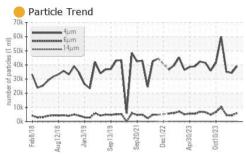
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

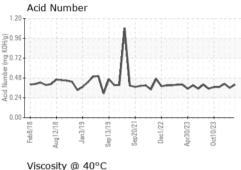
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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003193	HLC0003014	HLC0003139
Sample Date		Client Info		01 Apr 2024	07 Feb 2024	07 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	4	5
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	0
Lead	ppm	ASTM D5185m	>100	1	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	1	1	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		968	1063	824
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m		84	73	67
Phosphorus	ppm	ASTM D5185m		315	284	297
Zinc	ppm	ASTM D5185m		39	30	28
Sulfur	ppm	ASTM D5185m		8535	7323	7585
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	2
Sodium	ppm	ASTM D5185m		532	458	472
Potassium	ppm	ASTM D5185m	>20	18	14	14
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		39077	34353	35067
Particles >6µm		ASTM D7647	>5000	<u>6041</u>	4312	4562
Particles >14μm		ASTM D7647	>640	168	107	101
Particles >21µm		ASTM D7647	>160	18	8	11
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	<b>22/20/15</b>	22/19/14	22/19/14
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
A 1151 1 /5:::		10TH Doc:-				0.44

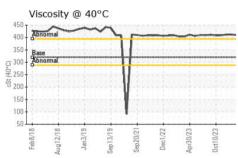


## **OIL ANALYSIS REPORT**









VISUAL						
White Metal	scalar	*Visual	NONE	NONE	NONE	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
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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T LOID I HOI LITT	ILU					
/isc @ 40°C	cSt	ASTM D445	320	410	412	412

SAI			

Color

**Bottom** 

## **GRAPHS** Ferrous Alloys Particle Count 491.52 122,880 30,720 7,680 1,920 Non-ferrous Metals 480 120 Viscosity @ 40°C Acid Number 500 (B<sub>1.20</sub> O.96 400 200 skt (40°C) € 0.72 흔 0.48 를 0.24 0.00 Acid





Laboratory Sample No.

: HLC0003193 Lab Number : 06146562 Unique Number : 10976640

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 11 Apr 2024 **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024 - Angela Borella PRUDHOE BAY, AK

US 99734 Contact: INDIGO MERRITT imerritt@hilcorp.com

HILCORP NORTHSTAR FACILITY

T: (907)670-3514 F: (907)659-5377

Test Package : IND 2 ( Additional Tests: PrtCount ) Certificate 12367

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)