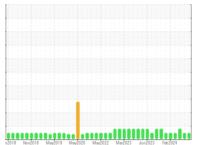


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

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

**MOBIL MOBILGEAR 632 (18 GAL)** 

DI			

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

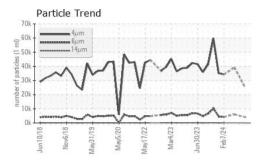
### **Fluid Condition**

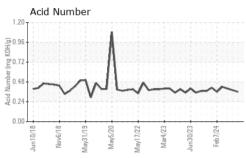
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

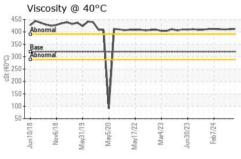
	u2018 Nov2016 Mor2019 Mor2020 Mor2022 Mor2023 Jun2023 Feb:2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		HLC0003311	HLC0003291	HLC0003193	
Sample Date		Client Info		01 Jun 2024	02 May 2024	01 Apr 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	ATTENTION	
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	5	6	6	
Chromium	ppm	ASTM D5185m	>15	0	<1	<1	
Nickel	ppm	ASTM D5185m	>15	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver	ppm	ASTM D5185m		0	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	0	<1	1	
Lead	ppm	ASTM D5185m	>100	0	<1	1	
Copper	ppm	ASTM D5185m	>200	<1	<1	<1	
Tin	ppm	ASTM D5185m	>25	0	0	1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		968	992	968	
Barium	ppm	ASTM D5185m		0	0	1	
Molybdenum	ppm	ASTM D5185m		0	0	1	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m		0	0	2	
Calcium	ppm	ASTM D5185m		80	78	84	
Phosphorus	ppm	ASTM D5185m		316	343	315	
Zinc	ppm	ASTM D5185m		40	24	39	
Sulfur	ppm	ASTM D5185m		9075	10566	8535	
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	2	4	3	
Sodium	ppm	ASTM D5185m		460	506	532	
Potassium	ppm	ASTM D5185m	>20	15	17	18	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4μm		ASTM D7647		25363		39077	
Particles >6µm		ASTM D7647	>5000	4207		6041	
Particles >14μm		ASTM D7647	>640	58		168	
Particles >21µm		ASTM D7647	>160	2		18	
Particles >38μm		ASTM D7647	>40	1		1	
Particles >71µm		ASTM D7647	>10	1		0	
Oil Cleanliness		ISO 4406 (c)	>/19/16	22/19/13		22/20/15	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
A : I		ACTM DODAE		0.26	0.00	0.40	

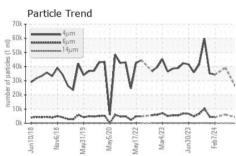


# **OIL ANALYSIS REPORT**









VISUAL		method				history2
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

FLUID PROPERI	IIES	method			history1	history2
Visc @ 40°C	cSt	ASTM D445	320	412	411	410

Color

**Bottom** 

**GRAPHS** 





# Ferrous Alloys Particle Count 491 520 122,880 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





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HLC0003311 Lab Number : 06205337 Unique Number : 11072798

Received **Tested** Diagnosed

: 10 Jun 2024 : 12 Jun 2024

: 12 Jun 2024 - Don Baldridge

흔 0.48 를 0.24 0.00 G

US 99734 Contact: INDIGO MERRITT

HILCORP NORTHSTAR FACILITY

imerritt@hilcorp.com T: (907)670-3514 F: (907)659-5377

PRUDHOE BAY, AK

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)