

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **BOBSP 7353**

Component **Gearbox**

MOBIL MOBILGEAR 600 XP ISO 150 (--- GA

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

2017 Mar2016 Aug2016 Jan2019 Nav2019 Jun2020 Des2021						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0001427	PTK0000394	PTK0000354
Sample Date		Client Info		19 Apr 2024	09 Nov 2023	13 Jun 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	<1	3	4
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>50	1	0	<1
Copper	ppm	ASTM D5185m	>200	2	3	2
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	method ASTM D5185m	limit/base	current 1	history1 0	nistory2 0
	ppm ppm		limit/base		•	· ·
Boron		ASTM D5185m	limit/base	1	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	1 <1	0	0 2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1	0 0 0	0 2 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 <1	0 0 0	0 2 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 <1	0 0 0 0	0 2 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 <1 1 <1 1 6	0 0 0 0 0	0 2 0 0 <1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 1 <1 1 6 333	0 0 0 0 0 0 2 282	0 2 0 0 <1 2 283
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 1 <1 1 6 333 4	0 0 0 0 0 0 2 282 8	0 2 0 0 <1 2 283 6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 1 <1 1 1 6 333 4 17714	0 0 0 0 0 2 282 8 13228	0 2 0 0 <1 2 283 6 14208
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 <1 1 1 <1 1 1 6 333 4 17714 current	0 0 0 0 0 0 2 282 8 13228	0 2 0 0 <1 2 283 6 14208
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	1 <1 1 1 <1 1 1 6 3333 4 17714 current 2	0 0 0 0 0 0 2 282 8 13228 history1	0 2 0 0 0 <1 2 283 6 14208 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	1 <1 1 1 <1 1 1 6 3333 4 177714 current 2 0	0 0 0 0 0 0 2 282 8 13228 history1 <1	0 2 0 0 0 <1 2 283 6 14208 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20 limit/base	1 <1 1 1 6 3333 4 17714 current 2 0 2 current 1065	0 0 0 0 0 2 282 8 13228 history1 <1 <1	0 2 0 0 0 <1 2 283 6 14208 history2 <1 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20	1 <1 1 1 6 3333 4 177714 current 2 0 2 current	0 0 0 0 0 2 282 8 13228 history1 <1 0	0 2 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base	1 <1 1 1 6 3333 4 17714 current 2 0 2 current 1065	0 0 0 0 0 0 2 282 8 13228 history1 <1 <1 0 history1 1884 504 23	0 2 0 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2 846 289 42
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	limit/base >50 >20 limit/base >2500	1 <1 1 1 6 333 4 17714 current 2 0 2 current 1065 242	0 0 0 0 0 0 2 282 8 13228 history1 <1 <1 0 history1 1884 504	0 2 0 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2 846 289
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >2500 >320	1 <1 1 1 6 333 4 17714 current 2 0 2 current 1065 242 25	0 0 0 0 0 0 2 282 8 13228 history1 <1 <1 0 history1 1884 504 23	0 2 0 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2 846 289 42
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >51µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50	1 <1 1 1 1 6 333 4 17714 current 2 0 2 current 1065 242 25 7	0 0 0 0 0 0 2 282 8 13228 history1 <1 <1 0 history1 1884 504 23 6	0 2 0 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2 846 289 42 16
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >2500 >320 >80 >20	1	0 0 0 0 0 2 282 8 13228 history1 <1 <1 0 history1 1884 504 23 6 0	0 2 0 0 0 0 <1 2 283 6 14208 history2 <1 0 1 history2 846 289 42 16 1

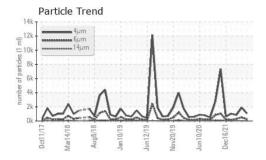
Contact/Location: TONY HILDY - GRAELK

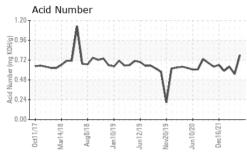


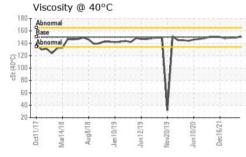
OIL ANALYSIS REPORT

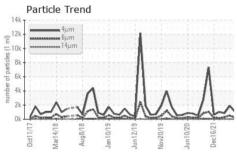
SAMPLE IMAGES

Bottom



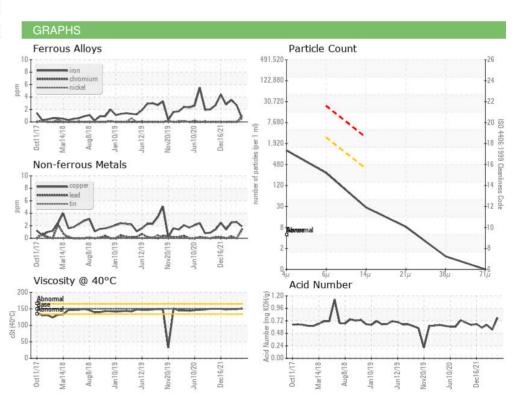






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	151	149	149

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Color		a
		17/5



: 25 Apr 2024 - Wes Davis





Laboratory Sample No.

: PTK0001427 Lab Number : 06159784

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024 **Tested** : 25 Apr 2024

Unique Number : 10995207 Diagnosed Test Package : MOB 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.

GRAPHIC PACKAGING

1500 NICHOLAS BLVD ELK GROVE, IL

US 60017 Contact: TONY HILDY anthonyhildy@graphicpkg.com

T: (847)437-1700

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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