

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id **A-751.1** Component **Gearbox** Fluid **MOBIL MOBILGEAR 600 XP 220 (--- LTR)**

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

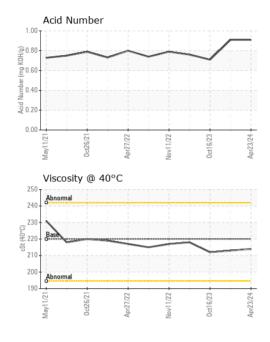
#### Fluid Condition

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

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2		
Sample Number		Client Info		HPL0003856	HPL0004106	HPL0003228		
Sample Date		Client Info		23 Apr 2024	19 Jan 2024	16 Oct 2023		
Machine Age	hrs	Client Info	<b>0</b> 0		0	0		
Oil Age	hrs	Client Info	0 0		0	0		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	ABNORMAL		
CONTAMINATION		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	11	11	73		
Chromium	ppm	ASTM D5185m	>10	0	0	0		
Nickel	ppm	ASTM D5185m	>10	0	<1	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		<1	<1	0		
Aluminum	ppm	ASTM D5185m	>25	0	1	<1		
Lead	ppm	ASTM D5185m	>50	0	0	1		
Copper	ppm	ASTM D5185m	>200	<1	2	<1		
Tin	ppm	ASTM D5185m	>10	0	<1	0		
Vanadium	ppm	ASTM D5185m		<1	<1	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
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		0	<1	<1		
Magnesium	ppm	ASTM D5185m		0	2	<1		
Calcium	ppm	ASTM D5185m		0	3	<1		
Phosphorus	ppm	ASTM D5185m		196	206	229		
Zinc	ppm	ASTM D5185m		0	0	38		
Sulfur	ppm	ASTM D5185m		26737	23033	18511		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>50	4	2	13		
Sodium	ppm	ASTM D5185m		2	<1	1		
Potassium	ppm	ASTM D5185m	>20	0	1	0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.91	0.91	0.71		



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CERTEDITED TESTING LABORATORY Certificate 12367	Unique Numb Test Packag	<ul> <li>HPL00</li> <li>er : 06183</li> <li>er : 11034</li> <li>ge : MOB 2</li> </ul>	: WearCheck USA - 50 : HPL0003856 : 06183020 : 11034346 : MOB 2 ; contact Customer Servi are outside of the ISO 12			l : 1 <sup>-</sup> : 20 ed : 20	7 May 2024 0 May 2024 ) May 2024 - Wes Davis 9.				STEPAN - MILLSDALE PLANT 22500W. Millsdale Rd. Elwood, IL US 60421 Contact: David Frush dfrush@stepan.com T:			
		CSt May11/21	0ct26/21	Apr27/22	Nov11/22	0ct16/23 +	Apr23/24	Acid Number (mg KOH/g) 0000	May11/21	0ct26/21	Apr27/22	Nov11/22	0ct16/23	Apr23/24
			ormal ormal					J Du 0.50					~	
			cosity @ 4		Z	U	4	(B/H0)	≥ Acid N			Z	0	4
		May11/21	0ct26/21 .	Apr27/22	Nov11/22	0ct16/23 -	Apr23/24	U	May11/21	0ct26/21-	Apr27/22	Nov11/22	0ct16/23 -	Apr23/24
		400 - Abn						E 100-	Abnormal					
		600 T	oper (ppm	i)				150	Silicon	(ppm	)			
		May11/2	0ct26/21	Apr27/22	Nov11/22	0ct16/23	Apr23/24		May11/2	0ct26/21	Apr27/22	Nov11/22	0ct16/23	Anr23/24
								E 20- Ed 10- 0-	Abnormal	_				
		100 Seve				1		30- - 20-	Severe		эрпту			
		May11/21	<sup>0¢t56/21</sup>	(mu	Nov11/22	0ct16/23	Apr23/24		Chrom	0ct56/21	( Apr27/22	Nov11/22	0ct16/23	Anr/23/24
				/22	/22	(23-	/24	0	Abnormal	3/21	/22	/22	/23	74
		400 200	re ormal					200- Ed 100-	Severe					
		Iro	APHS n (ppm)						Lead (	ppm)				
		Botto	m						no im	age	no in	lage	no im	age
Nov11/22 -	0ct16/23 +	Color							no im	age	no im	nage	no ima	age
	<u> </u>		MPLE IM	AGES	n	nethod	limit/b	ase	cur	rent	hist	tory1	histe	ory2
			JID PROF @ 40°C	CS		nethod TM D445	limit/b 220	ase	cur 214	rent	hisi 213	tory1	histe 212	ory2
		_	Water			isual			NEG		NEG		NEG	
No	0 4	0.00	sified Wat			isual isual	NORM >0.2	L	NOR NEG	ML	NOR NEG		NORI NEG	ML
Nov11/22 -	Oct16/23 -	Appe	arance	SC	alar *V	isual	NORM		NOR	ML	NOR	ML	NORI	ML
		Debr Sanc	-			isual isual	NONE NONE		LIGH		LIGH			
		Silt	pitate			isual	NONE		NON		NON		NON	
-	$\sim$		w Metal pitate			isual isual	NONE NONE		NON NON		NON		NON	
	White	e Metal	SC	alar *V	isual	NONE		NON	E	NON	E	NON	E	

Contact/Location: David Frush - STEELW