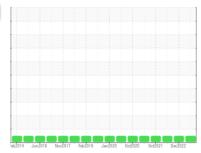


OIL ANALYSIS REPORT

Sample Rating Trend





HY/9WM Component **Gearbox**

Machine Id

MOBIL MOBILGEAR SHC XMP 320 (--- GAL)

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.

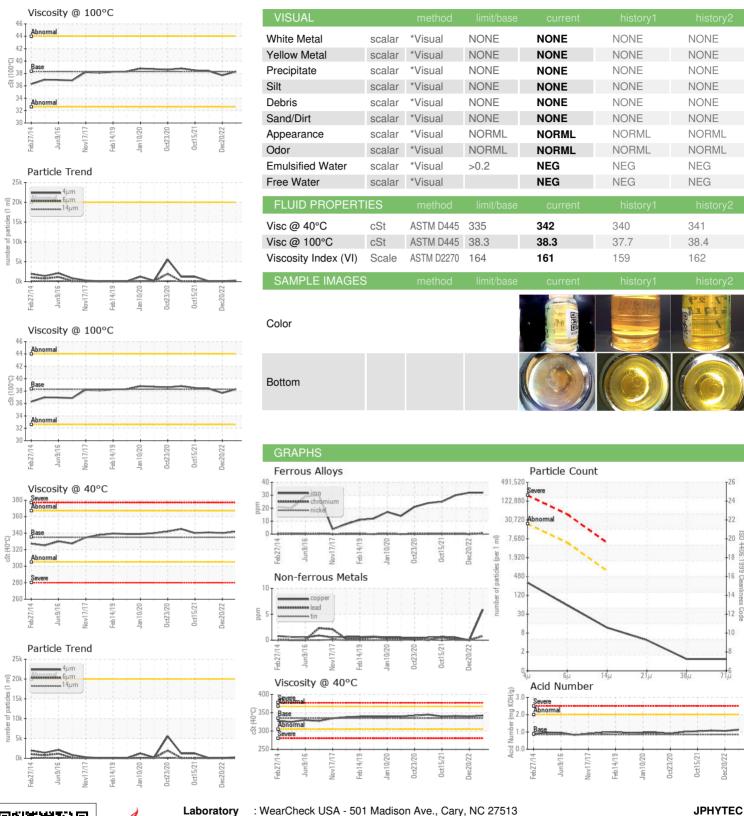
Fluid Condition

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

L)		eb2014 Juni	016 Nov2017 Feb2019	Jan 2020 Oct2020 Oct2021	Dec2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0695207	WC0695072	WC0407156
Sample Date		Client Info		14 Jul 2023	20 Dec 2022	29 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		52704	47460	44304
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	32	32	30
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	6	0	<1
Tin	ppm	ASTM D5185m	>25	<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	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	2	2
Calcium	ppm	ASTM D5185m	0	5	0	0
Phosphorus	ppm	ASTM D5185m	485	399	421	452
Zinc	ppm	ASTM D5185m	0	41	19	35
Sulfur	ppm	ASTM D5185m		4365	4670	5019
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	2
Sodium	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	271	94	73
Particles >6µm		ASTM D7647	>5000	51	25	13
Particles >14μm		ASTM D7647	>640	10	6	1
Particles >21µm		ASTM D7647	>160	4	2	1
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71μm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	15/13/10	14/12/10	13/11/7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.13	1.06	1.08



OIL ANALYSIS REPORT







Laboratory

Sample No.

Lab Number

: WC0695207

: 06139776

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

Diagnosed

: 05 Apr 2024

: 08 Apr 2024

: 08 Apr 2024 - Don Baldridge

Unique Number : 10964584 Test Package : PLANT (Additional Tests: KV100, VI)

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)

Contact/Location: Service ? - JPHYTEC

Contact: Service

JΡ

T:

F: