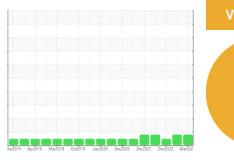


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

HY/11WM
Component
Gearbox

MOBIL MOBILGEAR SHC XMP 320 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Results confirmed.

Wear

All component wear rates are normal.

Contamination

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

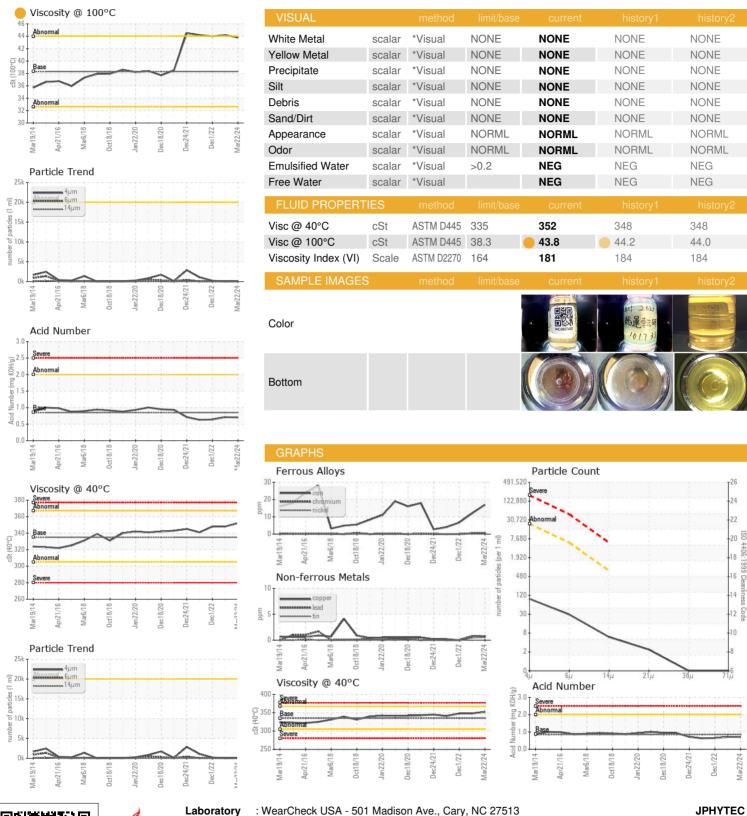
Fluid Condition

The oil viscosity at 100C is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

-)		flar2014 Apr2	016 Mar2018 Oct2018	Jan 2020 Dec 2020 Dec 2021 Dec	2022 Mar202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0807452	WC0695209	WC0695093
Sample Date		Client Info		22 Mar 2024	26 Jun 2023	01 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		20592	14112	9144
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	17	12	7
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	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	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	1
Calcium	ppm	ASTM D5185m	0	<1	<1	0
Phosphorus	ppm	ASTM D5185m	485	316	325	354
Zinc	ppm	ASTM D5185m	0	10	9	1
Sulfur	ppm	ASTM D5185m		<u>121</u>	182	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	7
Sodium	ppm	ASTM D5185m	>15	0	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	82	76	206
Particles >6µm		ASTM D7647	>5000	26	29	44
Particles >14μm		ASTM D7647	>640	5	5	7
Particles >21µm		ASTM D7647		2	3	2
Particles >38μm		ASTM D7647	>40	0	1	0
Particles >71μm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	14/12/10	13/12/10	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.70	0.71	0.64



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0807452 Lab Number : 06139795

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** : 08 Apr 2024

: 08 Apr 2024 - Don Baldridge

Unique Number : 10964603 Diagnosed Test Package : PLANT (Additional Tests: KV100, VI)

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: Service

JΡ

T:

F: