



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
6WM/TH/JPBD
 Component
Gearbox
 Fluid
MOBIL MOBILGEAR SHC XMP 320 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0807526	WC0695188	WC0695025
Sample Date		Client Info		19 Mar 2024	05 Oct 2023	28 Mar 2023
Machine Age	hrs	Client Info		0	0	37334
Oil Age	hrs	Client Info		44800	40845	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	12	17	28
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	12	4	7
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

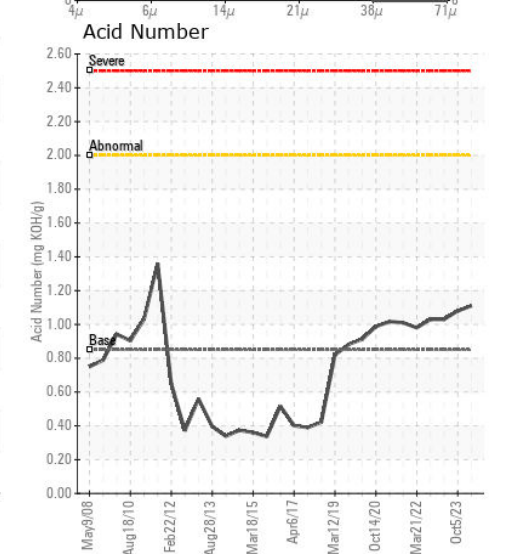
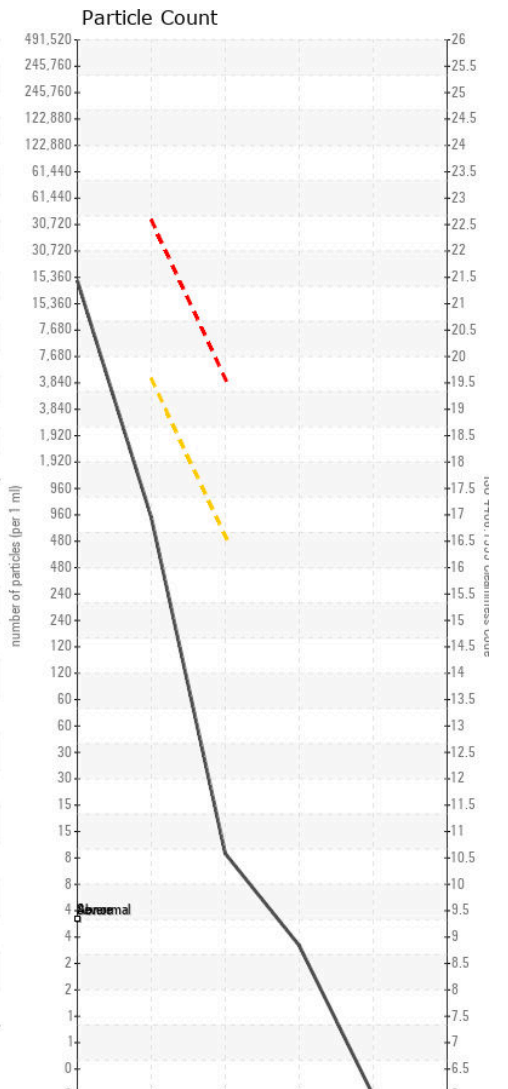
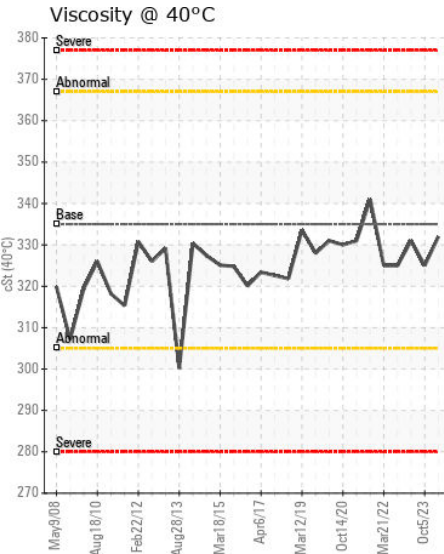
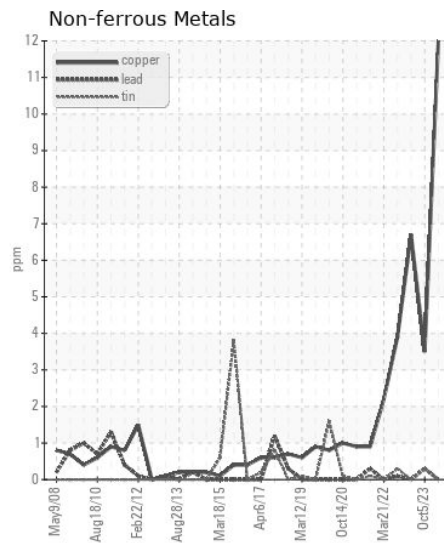
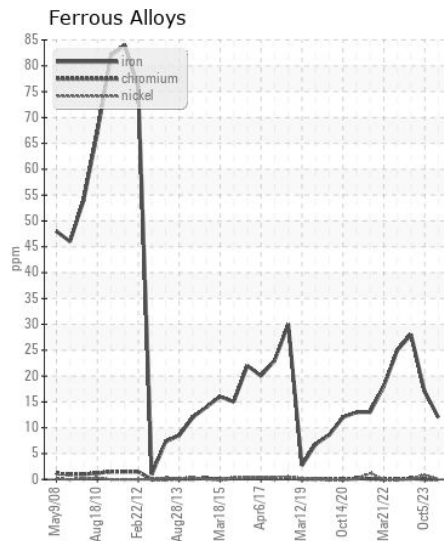
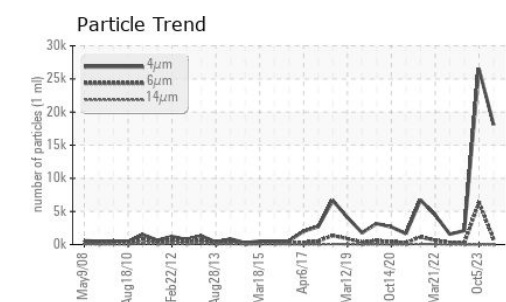
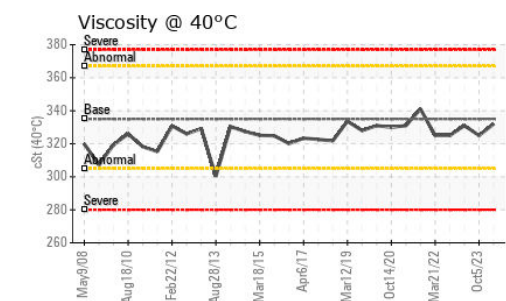
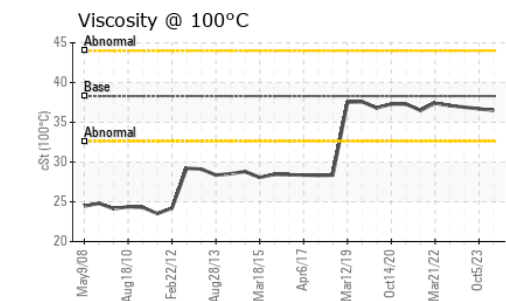
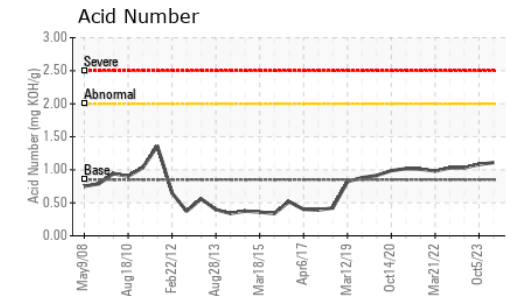
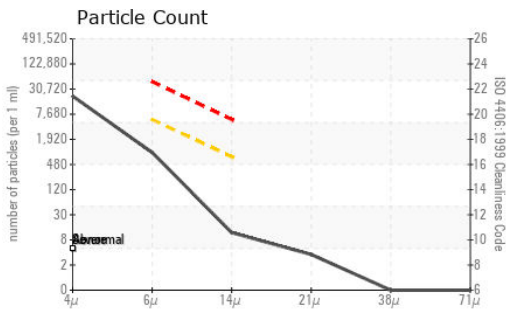
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	6	7	7
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647		18072	26516	2108
Particles >6µm		ASTM D7647	>5000	815	6342	214
Particles >14µm		ASTM D7647	>640	10	13	8
Particles >21µm		ASTM D7647	>160	3	3	2
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/16	21/17/10	22/20/11	18/15/10
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>15	0	0	0
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		0	0	<1
Magnesium	ppm	ASTM D5185m		0	1	<1
Calcium	ppm	ASTM D5185m	0	0	1	0
Phosphorus	ppm	ASTM D5185m	485	326	370	414
Zinc	ppm	ASTM D5185m	0	36	17	60
Sulfur	ppm	ASTM D5185m		5305	4458	5744
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.11	1.08	1.03
Visc @ 40°C	cSt	ASTM D445	335	332	325	331
Visc @ 100°C	cSt	ASTM D445	38.3	36.5	36.7	36.9
Viscosity Index (VI)	Scale	ASTM D2270	164	157	160	159



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0807526 **Received** : 24 Apr 2024
Lab Number : 06159096 **Tested** : 26 Apr 2024
Unique Number : 10994519 **Diagnosed** : 26 Apr 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: KV100, VI)

JPHYTEC
 JP
 Contact: Service

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)