



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
PMC PMC 32
 Component
Final Drive
 Fluid
MOBIL MOBILGEAR SHC 320 (60 GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0838827	WC0721680	WC855889
Sample Date		Client Info		06 Jun 2024	20 Sep 2022	03 Aug 2016
Machine Age	hrs	Client Info		6000	0	3000
Oil Age	hrs	Client Info		6000	0	3000
Filter Age	hrs	Client Info		0	0	120
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	5	4	4
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>50	9	10	1
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

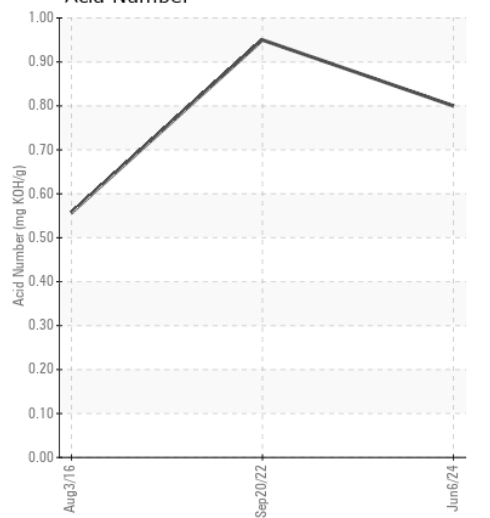
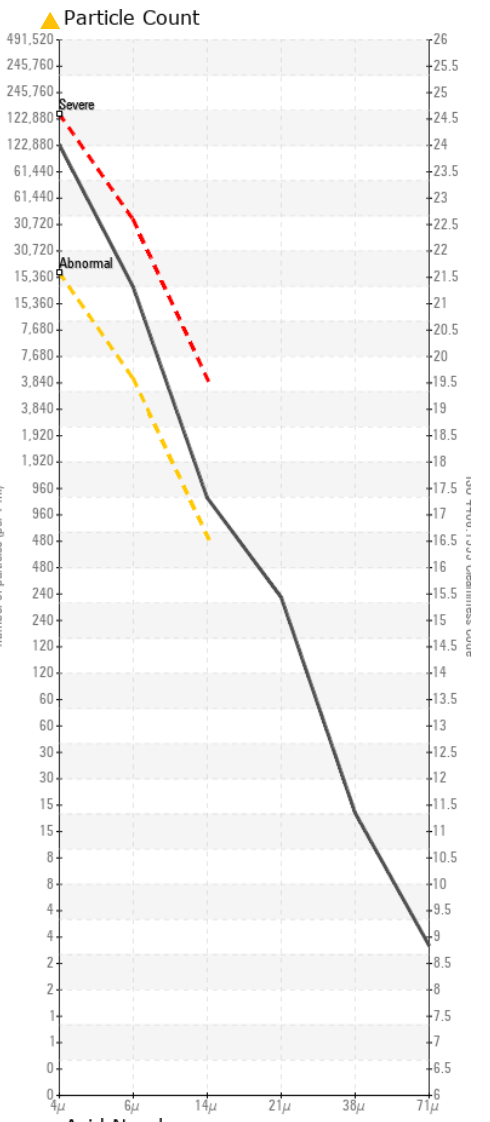
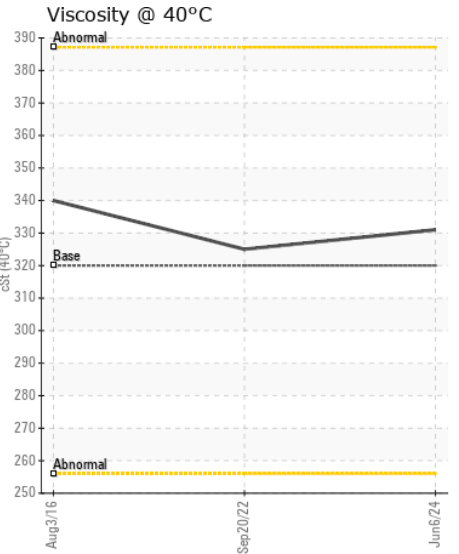
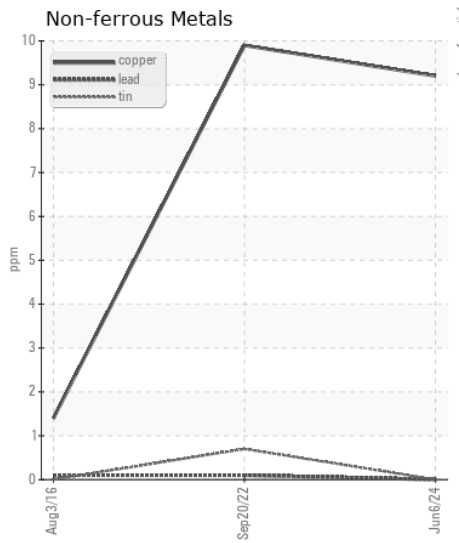
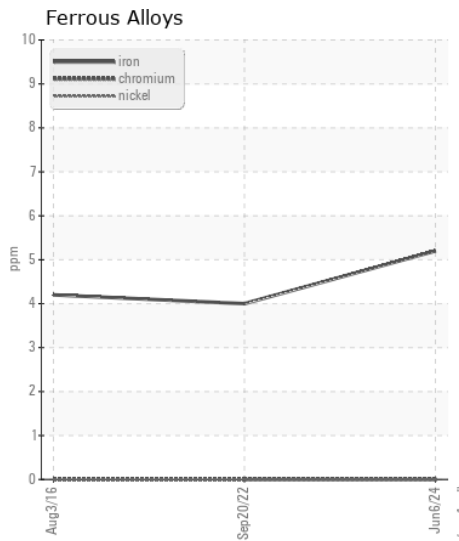
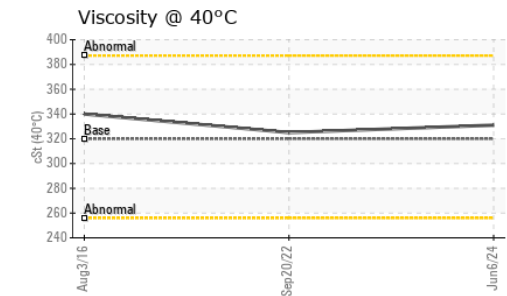
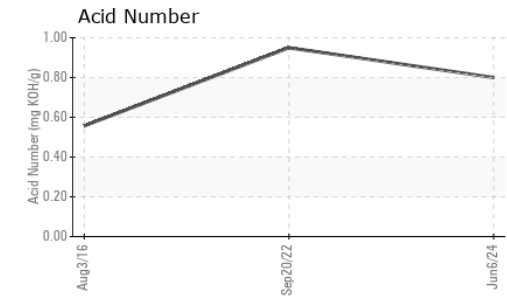
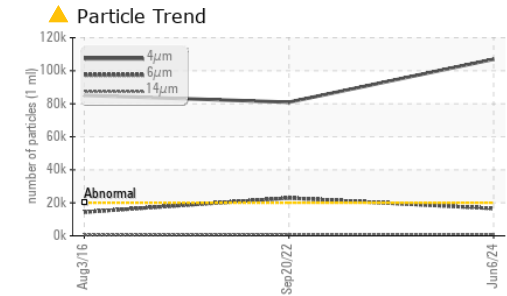
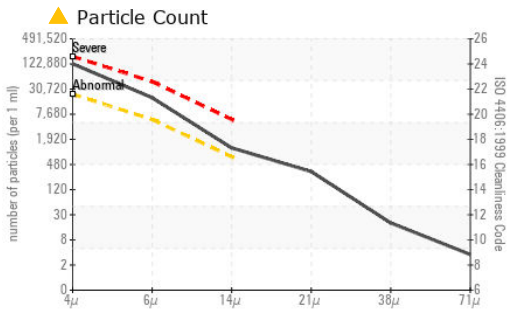
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>75	66	49	49
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 106976	▲ 80937	▲ 85098
Particles >6µm		ASTM D7647	>5000	▲ 16552	▲ 22897	▲ 14343
Particles >14µm		ASTM D7647	>640	● 1051	● 893	533
Particles >21µm		ASTM D7647	>160	● 286	● 251	157
Particles >38µm		ASTM D7647	>40	17	14	12
Particles >71µm		ASTM D7647	>10	3	7	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/17	▲ 24/22/17	▲ 24/21/16
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	Visual*	NONE	VLITE	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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)		<1	1	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	0	0
Calcium	ppm	ASTM D5185(m)		<1	1	0
Phosphorus	ppm	ASTM D5185(m)		394	462	426
Zinc	ppm	ASTM D5185(m)		1	1	<1
Sulfur	ppm	ASTM D5185(m)		1589	1773	1683
Acid Number (AN)	mg KOH/g	ASTM D974*		0.80	0.95	0.557
Visc @ 40°C	cSt	ASTM D7279(m)	320	331	325	340



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0838827 **Received** : 10 Jun 2024
Lab Number : 02640867 **Tested** : 11 Jun 2024
Unique Number : 5798406 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.