



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
FA8-8G1 HEAD GATE

Component
Gearbox

Fluid
MOBIL MOBILGEAR SHC 220 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0785273	---	---
Sample Date		Client Info		20 Sep 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>200	<1	---	---
Chromium	ppm	ASTM D5185(m)	>15	0	---	---
Nickel	ppm	ASTM D5185(m)	>15	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	---	---
Lead	ppm	ASTM D5185(m)	>100	0	---	---
Copper	ppm	ASTM D5185(m)	>200	<1	---	---
Tin	ppm	ASTM D5185(m)	>25	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

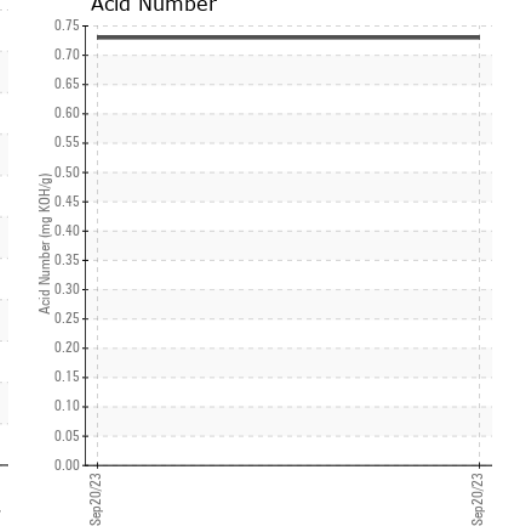
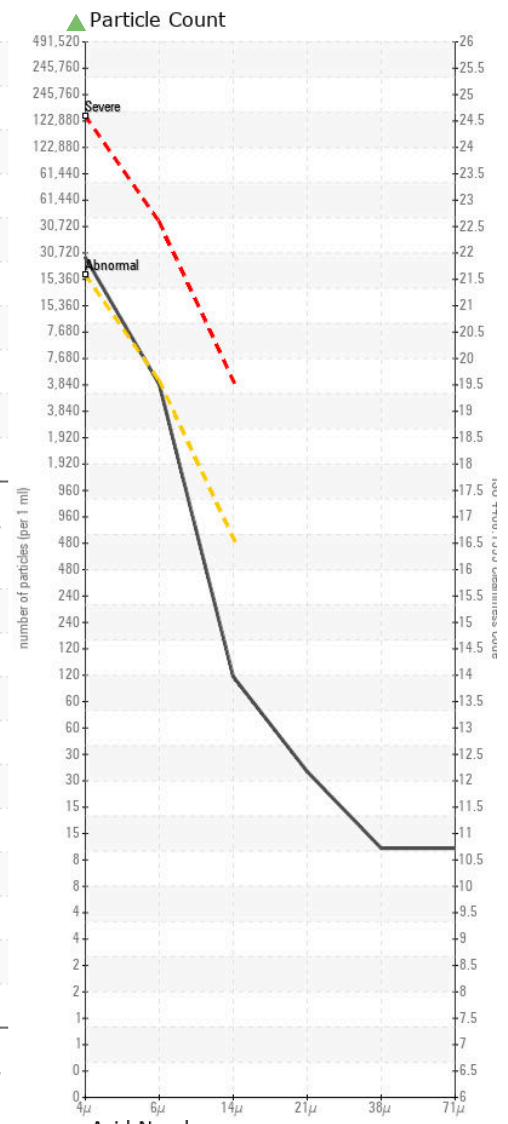
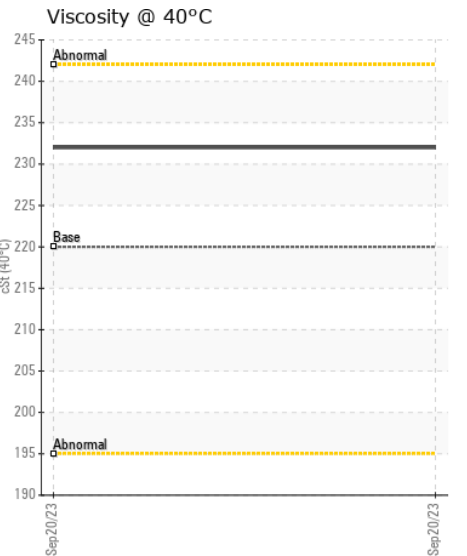
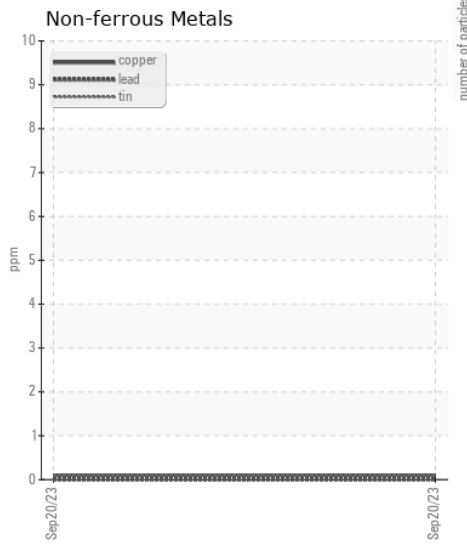
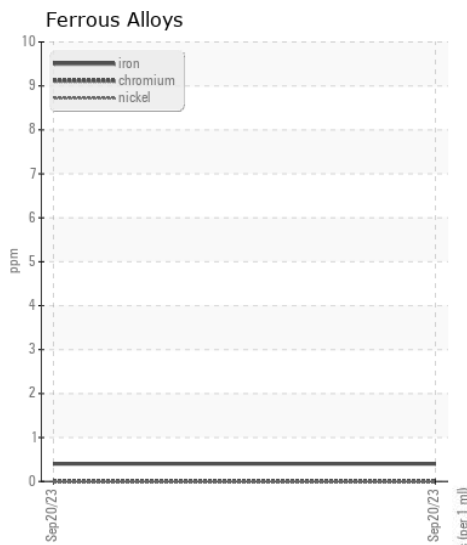
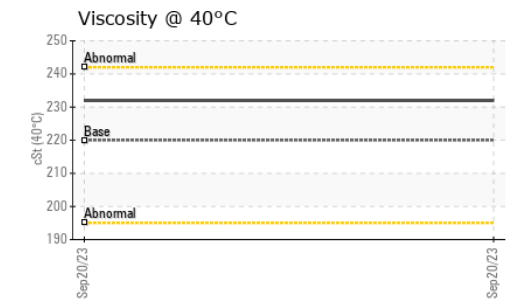
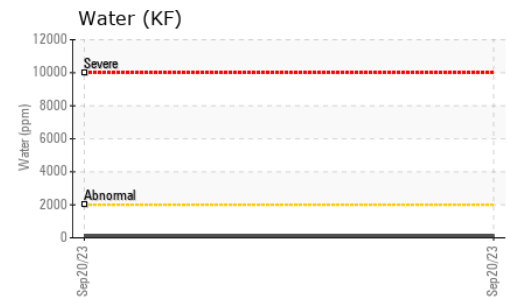
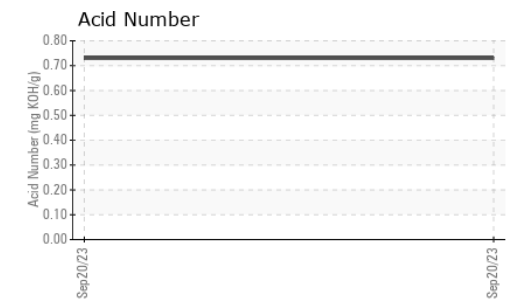
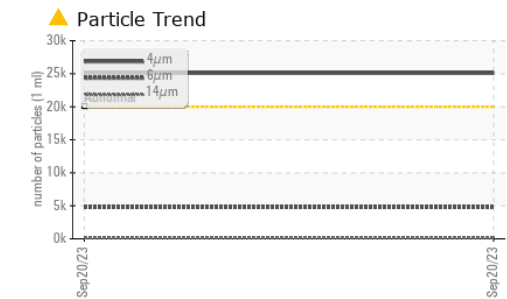
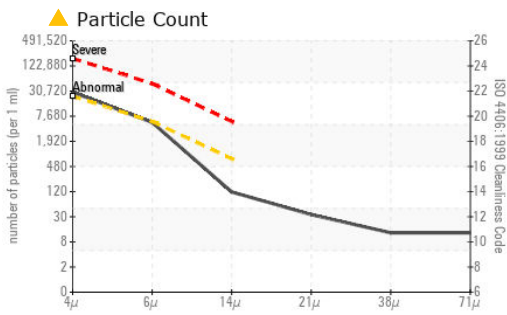
There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>50	16	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water	%	ASTM D6304*	>0.2	0.012	---	---
ppm Water	ppm	ASTM D6304*	>2000	121	---	---
Particles >4µm		ASTM D7647	>20000	▲ 25089	---	---
Particles >6µm		ASTM D7647	>5000	4767	---	---
Particles >14µm		ASTM D7647	>640	104	---	---
Particles >21µm		ASTM D7647	>160	30	---	---
Particles >38µm		ASTM D7647	>40	11	---	---
Particles >71µm		ASTM D7647	>10	11	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/19/14	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	▲ HAZY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185(m)		0	---	---
Boron	ppm	ASTM D5185(m)		<1	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		<1	---	---
Calcium	ppm	ASTM D5185(m)		1	---	---
Phosphorus	ppm	ASTM D5185(m)		387	---	---
Zinc	ppm	ASTM D5185(m)		8	---	---
Sulfur	ppm	ASTM D5185(m)		2056	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.73	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	232	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0785273
Lab Number : 02616793
Unique Number : 5733903
Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

Ontario Power Generation - Northeast Operations
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 TIMMINS, ON
 CA P4N 7H1
 Contact: Joey De Pinto
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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.