

WEAR CONTAMINATION FLUID CONDITION **ABNORMAL SEVERE NORMAL**

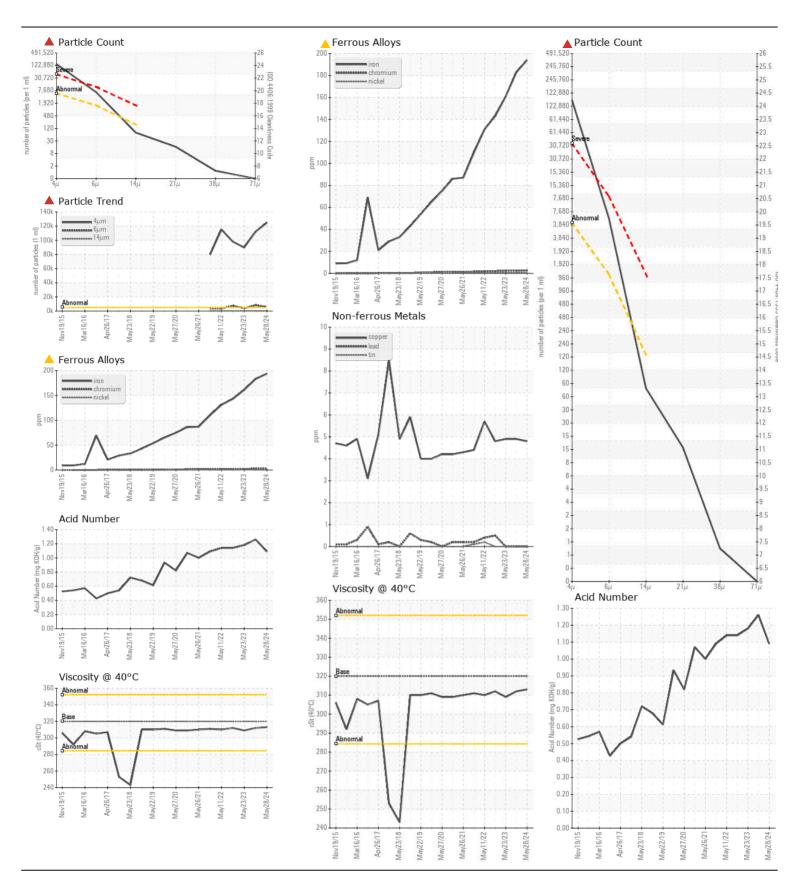
OZR/BD11

BD11 PLASTIFIER GEARBOX (S/N 101931)

Main Pump

MORII MOBILGEAR 600 XP 320 (250 LTR)

MOBIL MOBILGEAR 600 XP 320 (250 LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.	Sample Number		Client Info		WC0855126	WC0855060	WC0799485
	Sample Date		Client Info		28 May 2024	14 Nov 2023	23 May 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	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				SEVERE	SEVERE	SEVERE
WEAR	PQ		ASTM D8184*		46	31	17
Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Iron	ppm	ASTM D5185(m)	>90	194	<u> </u>	161
	Chromium	ppm	ASTM D5185(m)	>5	3	2	2
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>3	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>7	0	<1	<1
	Lead	ppm	ASTM D5185(m)	>12	0	0	0
	Copper	ppm	ASTM D5185(m)	>30	5	5	5
	Tin	ppm	ASTM D5185(m)	>9	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	<1	2	2
	Potassium	ppm	ASTM D5185(m)	>20	<1	5	<1
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	124856	1 12110	\$9658
	Particles >6µm		ASTM D7647	>1300	△ 5626	<u> </u>	<u></u> 4 3965
	Particles >14μm		ASTM D7647	>160	66	40	92
	Particles >21µm		ASTM D7647		14	7	24
	Particles >38µm		ASTM D7647		1	1	2
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		4 24/20/13	2 4/20/12	2 4/19/14
	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 Emulsified Water	scalar	Visual*	NORML	NORML NEG	NORML NEG	NORML NEG
	Elliuisilleu watei	Scalai	VISUAI	>.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	3	2
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185(m)		18	18	19
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		0	0	<1
	Manganese	ppm	ASTM D5185(m)		2	1	2
	Magnesium	ppm	ASTM D5185(m)		<1	0	0
	Calcium	ppm	ASTM D5185(m)		21	21	21
	Phosphorus	ppm	ASTM D5185(m)		236	238	274
	Zinc	ppm	ASTM D5185(m)		14	13	13
	Sulfur	ppm	ASTM D5185(m)		8756	8839	9306
	Acid Number (AN)	mg KOH/g	ASTM D974*		1.09	1.26	1.18
	Visc @ 40°C	cSt	ASTM D7279(m)	320	313	312	309





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0855126 : 02640591

Unique Number : 5789753

Received **Tested** Diagnosed

: 07 Jun 2024 : 10 Jun 2024

: 10 Jun 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: PQ)

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.

MICHELIN TIRE 866 RANDOLPH RD WATERVILLE, NS **CA BOP 1V0** Contact: Alan Davies alan.davies@michelin.com

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