

OIL ANALYSIS REPORT

Sample Rating Trend



Area **5**

5-3-241 Pump Station for Atox GBOX Lube

Component

Gearbox

MOBIL MOBILGEAR 600 XP 320 (4400 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. 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 advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

Historical wear metal increases have stabilized.

Contamination

Free water present. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

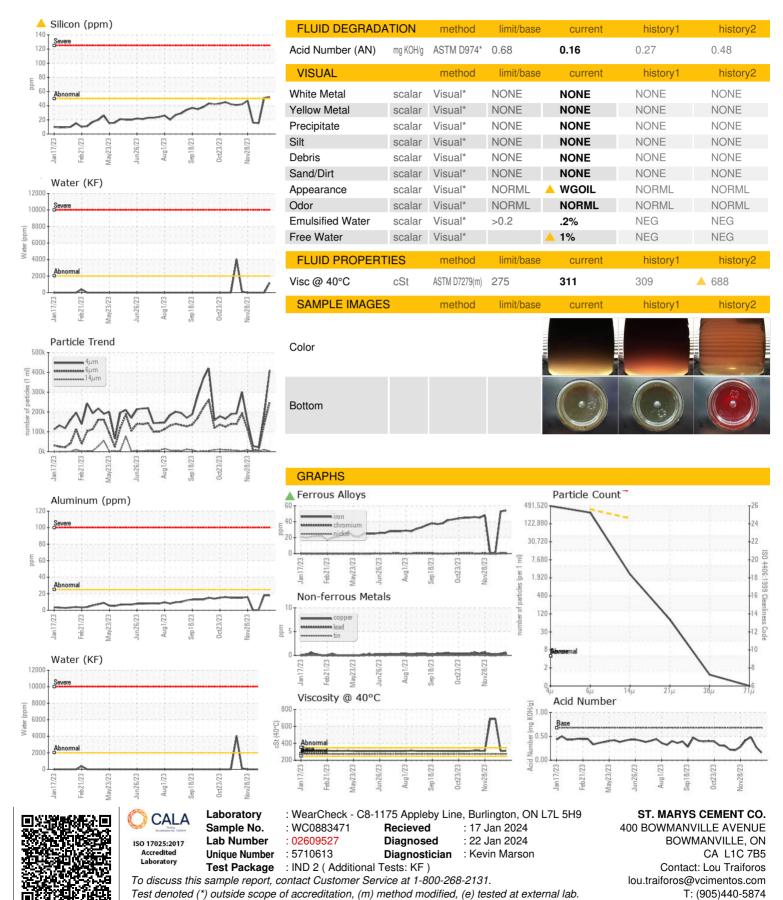
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

12023 Feb2023 Mey2023 Jun2023 Aug2023 Sep2023 Oct2023 New2023						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883471	WC0883473	WC0883469
Sample Date		Client Info		15 Jan 2024	09 Jan 2024	18 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	▲ 54	▲ 53	<1
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	18	18	<1
Lead	ppm	ASTM D5185(m)	>100	<1	<1	0
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>25	<1	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	57	2	2	0
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	2.0	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0.0	9	9	0
Calcium	ppm	ASTM D5185(m)	42	256	▲ 254	▲ <1
Phosphorus	ppm	ASTM D5185(m)	399	248	261	381
Zinc	ppm	ASTM D5185(m)	13	14	16	1
Sulfur	ppm	ASTM D5185(m)	13649	9282	8915	▲ 227
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	▲ 52	<u></u> ▲ 51	15
Sodium	ppm	ASTM D5185(m)		1	1	0
Potassium	ppm	ASTM D5185(m)	>20	0	11	<1
Water	%	ASTM D6304*	>0.2	0.117		
ppm Water	ppm	ASTM D6304*	>2000	1176		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		411073	185382	22445
Particles >6µm		ASTM D7647	>320000	248535	138072	5331
Particles >14μm		ASTM D7647	>160000	2196	9422	178
1 aπισιος >14μπ						
Particles >21μm		ASTM D7647	>40000	69	560	26
		ASTM D7647 ASTM D7647	>40000 >10000	69 1	560 5	26 0
Particles >21µm						



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Validity of results and interpretation are based on the sample and information as supplied.

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