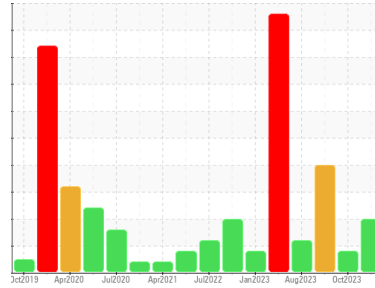


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
BT-F01-B1 (S/N B1 RECYCLE BLOWER)

Component
Outboard Blower

Fluid
SHELL TELLUS S2 MX 100 (--- GAL)

DIAGNOSIS

Recommendation

Current oil contamination levels are on par with new unfiltered oil. Filter oil if possible using B6=75 filter media or better. No other action recommended at this time. Resample at next normal interval.

Wear

Wear particles are low and acceptable.

Contamination

Particle contamination is elevated. Filtration can help extend machine life.

Fluid Condition

Fluid health is acceptable for continued use.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PLS0000804	PLS0000776	PLS0000474
Sample Date	Client Info	31 Jan 2024	24 Oct 2023	15 Aug 2023
Machine Age	mths	3	0	0
Oil Age	mths	0	1	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		ABNORMAL	SEVERE	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	14	12	12	
Iron	ppm	ASTM D5185m >20	0	0	2
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	0	0	0
Lead	ppm	ASTM D5185m >20	0	0	1
Copper	ppm	ASTM D5185m >20	0	<1	2
Tin	ppm	ASTM D5185m >20	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	65	30	1
Calcium	ppm	ASTM D5185m	2	0	9
Phosphorus	ppm	ASTM D5185m	290	215	47
Zinc	ppm	ASTM D5185m	349	298	18
Sulfur	ppm	ASTM D5185m	771	467	▲ 1556

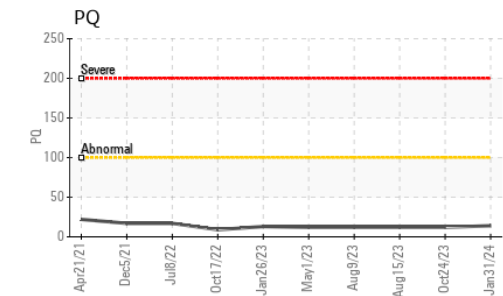
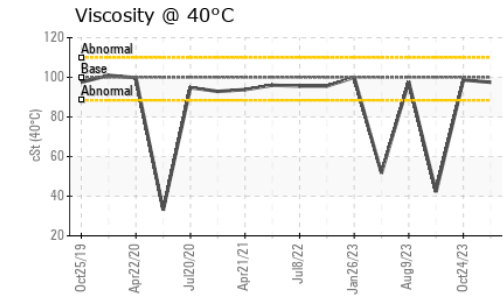
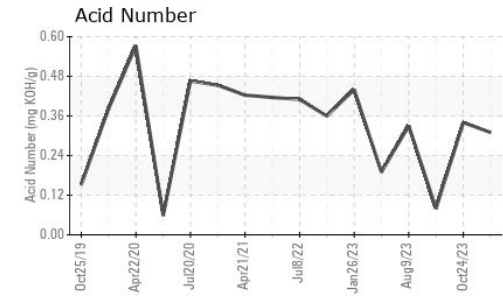
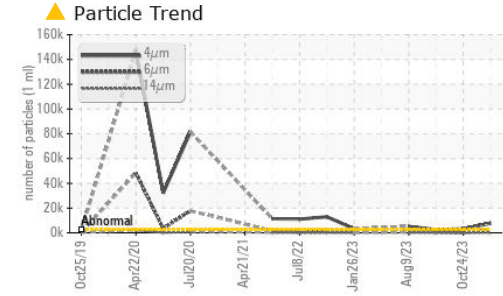
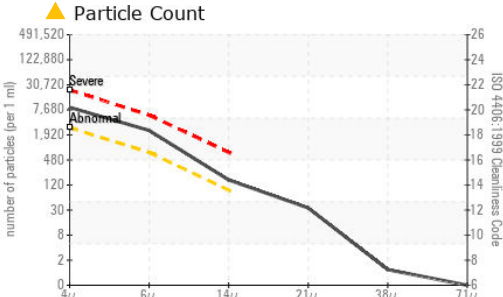
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<1	<1	0
Sodium	ppm	ASTM D5185m	0	1	0
Potassium	ppm	ASTM D5185m >20	0	0	<1

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624	1.8	1.8	1.7
Sulfation	Abs./1mm	*ASTM D7415	10.6	10.6	10.5

OIL ANALYSIS REPORT



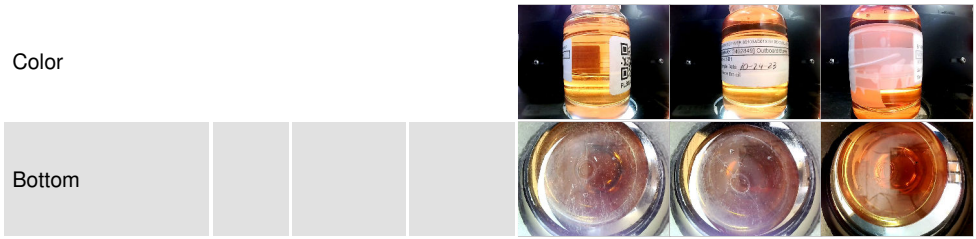
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 7671	3189	▲ 2581
Particles >6µm	ASTM D7647	>640	▲ 2149	278	▲ 848
Particles >14µm	ASTM D7647	>80	▲ 140	15	▲ 99
Particles >21µm	ASTM D7647	>20	▲ 30	3	34
Particles >38µm	ASTM D7647	>4	1	0	2
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/14	19/15/11	▲ 19/17/14

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414		2.0	2.1	2.3
Acid Number (AN)	mg KOH/g ASTM D8045		0.31	0.34	0.08

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	▲ LIGHT
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
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		NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	100	97.5	98.7	42.24

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000804
Lab Number : 06077607
Unique Number : 10859698
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

HEXION - BAYTOWN PLANT
 8450 WEST BAY RD
 BAYTOWN, TX
 US 77520
 Contact: PAT BELL
 pat.bell@motive.com

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)