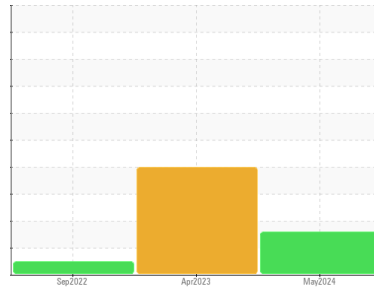




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

ASRI-TRL-TP-ACUM-0001 ASRI-TRL-TP-ACUM-0001

Component

Hydraulic System

Fluid

MOBIL DTE 10 EXCEL 32 (360 GAL)

DIAGNOSIS

Recommendation

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 at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		HLC0002878	HLC0002231	HLC0001913
Sample Date	Client Info		31 May 2024	25 Apr 2023	12 Sep 2022
Machine Age	mths	Client Info	12	13	0
Oil Age	mths	Client Info	0	13	6
Oil Changed	Client Info		Not Changed	Not Changed	N/A
Sample Status			ABNORMAL	SEVERE	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	9	6	2
Chromium	ppm	ASTM D5185m >20	<1	0	0
Nickel	ppm	ASTM D5185m >20	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	0	0
Lead	ppm	ASTM D5185m >20	<1	<1	0
Copper	ppm	ASTM D5185m >20	4	2	2
Tin	ppm	ASTM D5185m >20	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	2
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	7	0	0
Barium	ppm	ASTM D5185m	1	<1	0
Molybdenum	ppm	ASTM D5185m	<1	<1	1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	3	3	0
Calcium	ppm	ASTM D5185m 120	71	83	87
Phosphorus	ppm	ASTM D5185m 475	299	355	446
Zinc	ppm	ASTM D5185m	85	101	68
Sulfur	ppm	ASTM D5185m 1275	2718	1152	1409

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	4	3	2
Sodium	ppm	ASTM D5185m	17	12	3
Potassium	ppm	ASTM D5185m >20	2	1	0

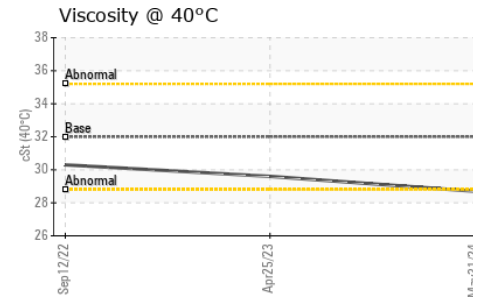
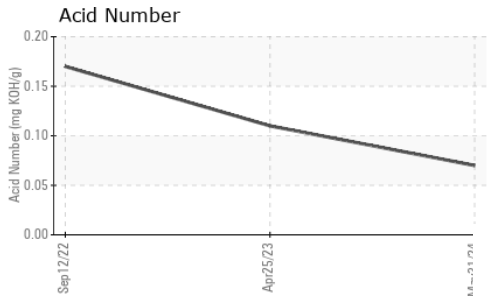
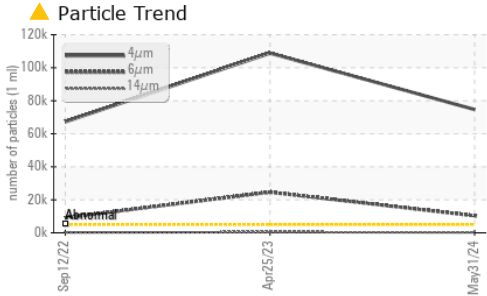
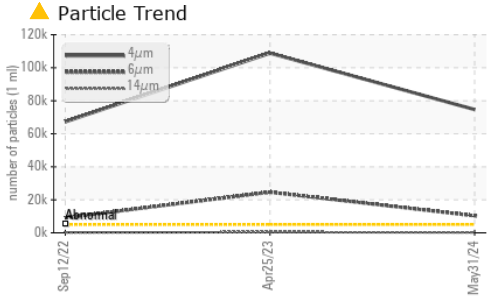
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 74663	▲ 108844	67253
Particles >6µm	ASTM D7647	>1300	▲ 10306	▲ 24611	9160
Particles >14µm	ASTM D7647	>160	● 223	▲ 400	207
Particles >21µm	ASTM D7647	>40	33	37	38
Particles >38µm	ASTM D7647	>10	0	1	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/15	▲ 24/22/16	23/20/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.07	0.11	0.17

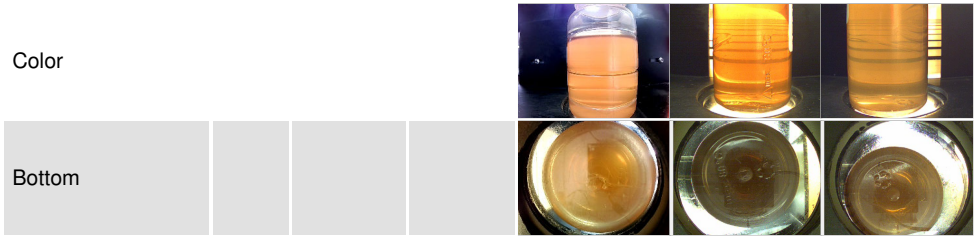
OIL ANALYSIS REPORT



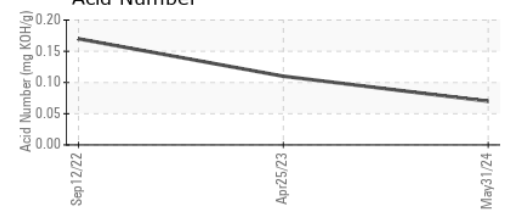
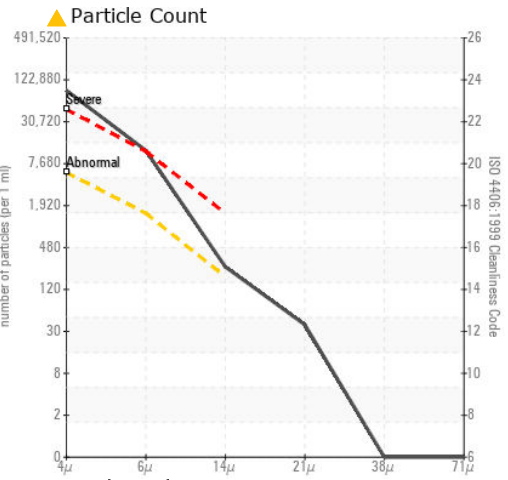
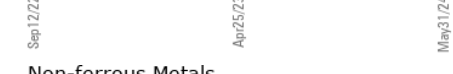
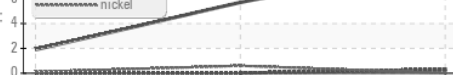
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	28.7	29.6	30.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HLC0002878 **Received** : 07 Jun 2024
Lab Number : 06203353 **Tested** : 10 Jun 2024
Unique Number : 11070814 **Diagnosed** : 11 Jun 2024 - Angela Borella
Test Package : IND 2

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 PRUDOE BAY, AK
 US 99734
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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)