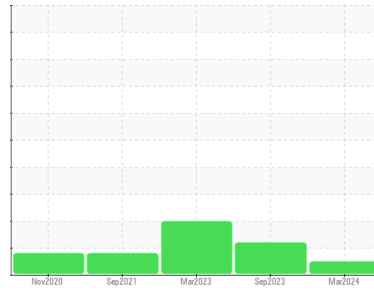




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[1215]

Machine Id

MARATHON V-6030HD 2145769 - PETSMA

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0885310	WC0836598	WC0759691
Sample Date	Client Info	28 Mar 2024	22 Sep 2023	09 Mar 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Filtered	Filtered	Filtered
Sample Status		NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	2	1	2
Chromium	ppm ASTM D5185m >10	1	1	1
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	<1	0	0
Aluminum	ppm ASTM D5185m >10	2	0	<1
Lead	ppm ASTM D5185m >10	0	0	0
Copper	ppm ASTM D5185m >75	1	<1	<1
Tin	ppm ASTM D5185m >10	<1	0	<1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	4	4	6
Barium	ppm ASTM D5185m 5	<1	0	<1
Molybdenum	ppm ASTM D5185m 5	<1	0	0
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 25	6	2	4
Calcium	ppm ASTM D5185m 200	255	229	276
Phosphorus	ppm ASTM D5185m 300	403	388	360
Zinc	ppm ASTM D5185m 370	481	472	468
Sulfur	ppm ASTM D5185m 2500	1313	1224	1235

CONTAMINANTS

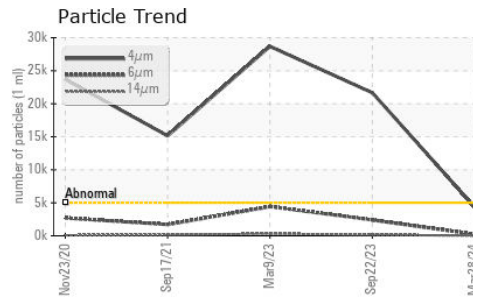
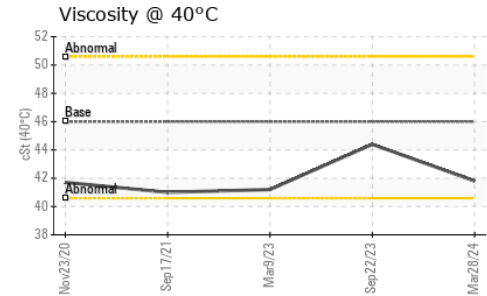
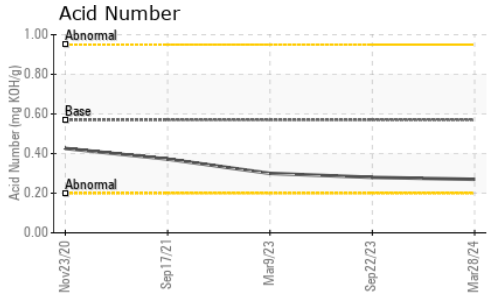
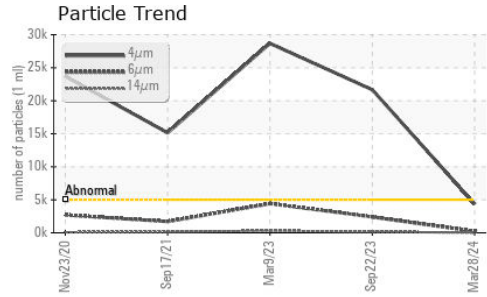
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	2	4	5
Sodium	ppm ASTM D5185m	0	2	<1
Potassium	ppm ASTM D5185m >20	1	<1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	4348	▲ 21666	▲ 28691
Particles >6µm	ASTM D7647 >1300	244	● 2402	▲ 4425
Particles >14µm	ASTM D7647 >160	20	151	▲ 315
Particles >21µm	ASTM D7647 >40	4	43	▲ 94
Particles >38µm	ASTM D7647 >10	0	2	4
Particles >71µm	ASTM D7647 >3	0	1	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/15/11	▲ 22/18/14	▲ 22/19/15



OIL ANALYSIS REPORT

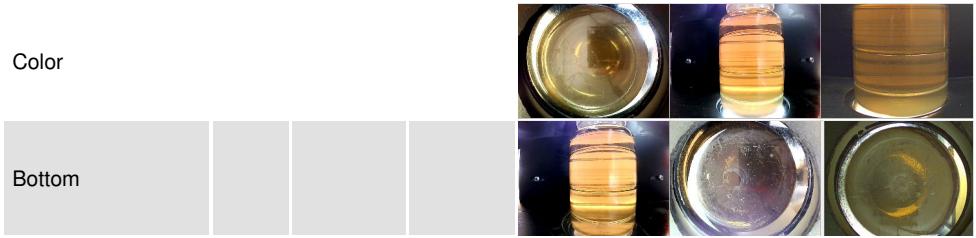


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.27	0.28	0.30

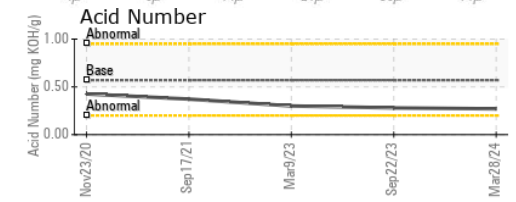
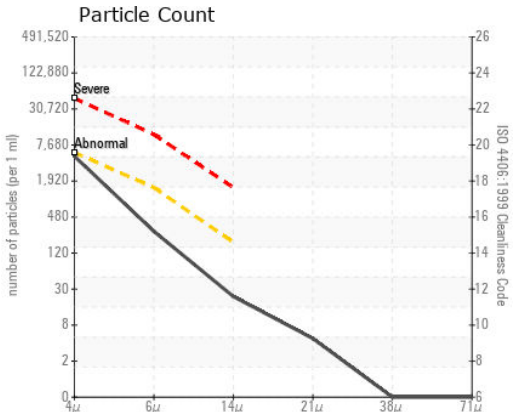
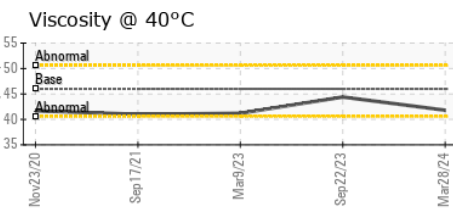
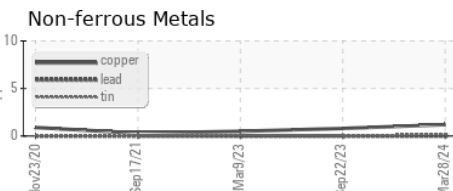
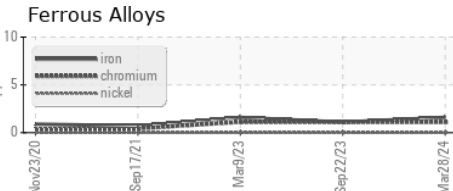
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	41.8	44.4	41.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885310 **Received** : 08 Apr 2024
Lab Number : **06142198** **Tested** : 11 Apr 2024
Unique Number : 10967006 **Diagnosed** : 11 Apr 2024 - Wes Davis
Test Package : IND 2

ADVANCED EQUIPMENT SALES
 535 HAGEY RD
 SOUDERTON, PA
 US 18964
 Contact: JEFF BURNLEY
 jburnley@aesales.net
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 F: (215)723-7201

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)