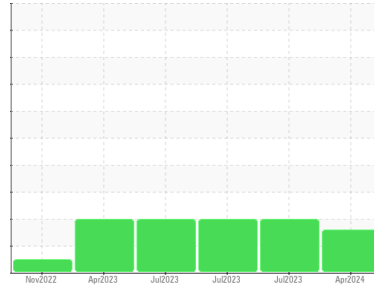




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

{UNASSIGNED}

Machine Id

CIRGPB-1 (S/N 12-213)

Component

Hydraulic Power Pack

Fluid

MOBIL DTE 25 (270 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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		WC0782726	WC0782751	WC0782750
Sample Date	Client Info		18 Apr 2024	17 Jul 2023	17 Jul 2023
Machine Age	hrs	Client Info	74100	15575	15575
Oil Age	hrs	Client Info	8700	5	5
Oil Changed	Client Info		N/A	Diff Oil	Diff Oil
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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	0	0
Chromium	ppm	ASTM D5185m	>20	<1	0
Nickel	ppm	ASTM D5185m	>20	1	0
Titanium	ppm	ASTM D5185m		<1	<1
Silver	ppm	ASTM D5185m		<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1
Lead	ppm	ASTM D5185m	>20	1	<1
Copper	ppm	ASTM D5185m	>20	▲ 34	<1
Tin	ppm	ASTM D5185m	>20	2	0
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	13
Barium	ppm	ASTM D5185m		<1	<1
Molybdenum	ppm	ASTM D5185m		2	13
Manganese	ppm	ASTM D5185m		<1	0
Magnesium	ppm	ASTM D5185m		2	43
Calcium	ppm	ASTM D5185m		74	355
Phosphorus	ppm	ASTM D5185m		315	318
Zinc	ppm	ASTM D5185m		503	401
Sulfur	ppm	ASTM D5185m		825	2413

CONTAMINANTS

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

FLUID CLEANLINESS

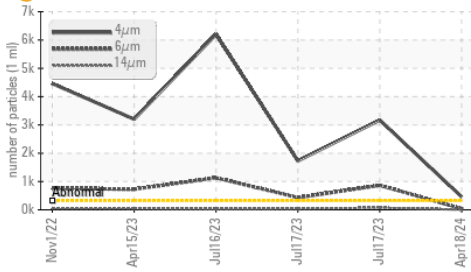
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	● 461	▲ 1729	▲ 3171
Particles >6µm	ASTM D7647	>80	39	▲ 432	▲ 866
Particles >14µm	ASTM D7647	>10	5	▲ 38	▲ 71
Particles >21µm	ASTM D7647	>3	1	▲ 9	▲ 19
Particles >38µm	ASTM D7647	>3	0	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>15/13/10	● 16/12/10	▲ 18/16/12	▲ 19/17/13

FLUID DEGRADATION

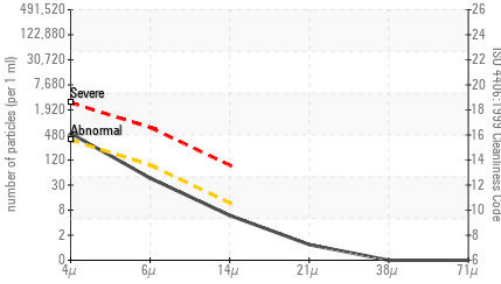
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.57

OIL ANALYSIS REPORT

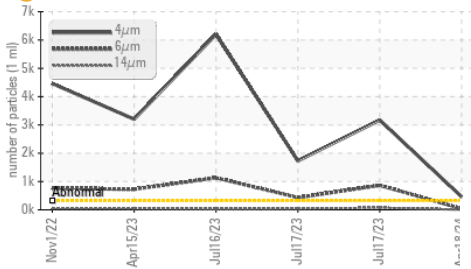
Particle Trend



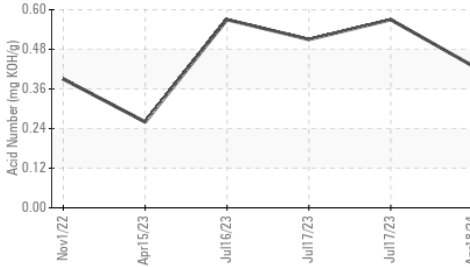
Particle Count



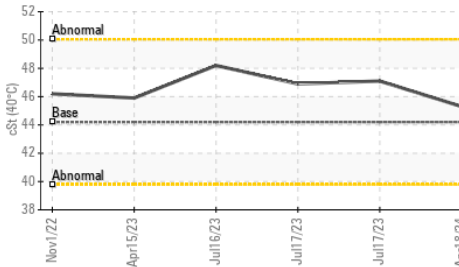
Particle Trend



Acid Number



Viscosity @ 40°C



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	44.2	45.3	47.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

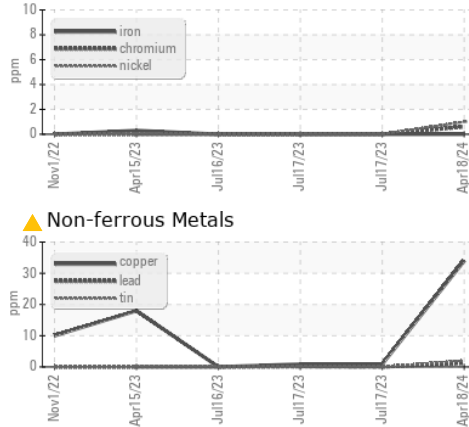


Bottom

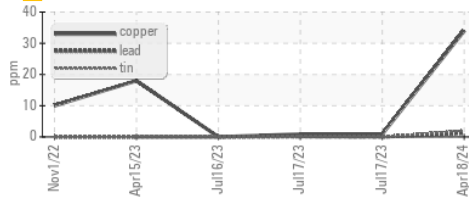


GRAPHS

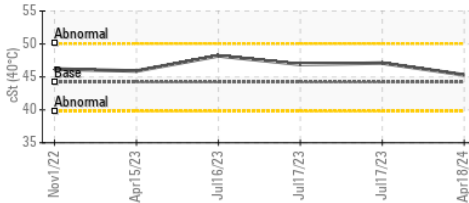
Ferrous Alloys



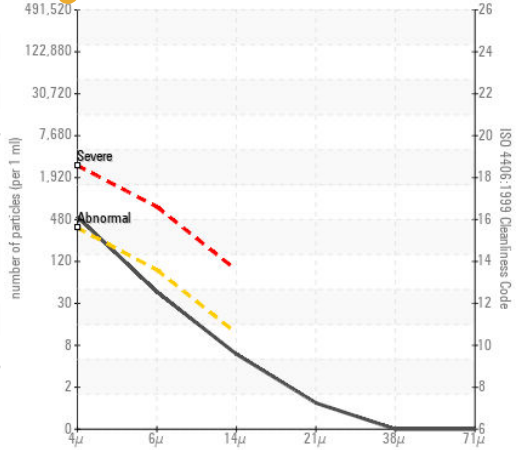
Non-ferrous Metals



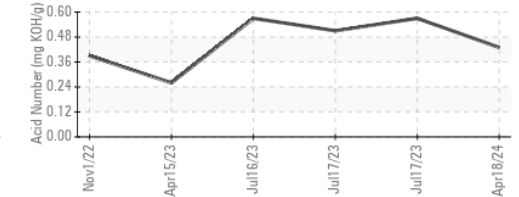
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0782726

Lab Number : 06159775

Unique Number : 10995198

Test Package : IND 2

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 26 Apr 2024 - Don Baldrige

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)

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