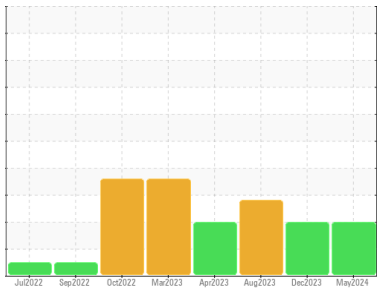
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
HPU22
Machine Id
TB03
Component
Hydraulic System
Fluid
ESSO HYJET IV-A PLUS (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0896084**	WC0817733	WC0817677
Sample Date		Client Info		**06 May 2024**	12 Dec 2023	07 Aug 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	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 D5185m	>20	**<1**	0	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	5
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	<1
Lead	ppm	ASTM D5185m	>20	**<1**	0	0
Copper	ppm	ASTM D5185m	>20	**0**	<1	0
Tin	ppm	ASTM D5185m	>20	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	2	3
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**<1**	0	2
Calcium	ppm	ASTM D5185m	110	**105**	100	129
Phosphorus	ppm	ASTM D5185m	37	**27452**	35432	10000
Zinc	ppm	ASTM D5185m		**10**	0	0
Sulfur	ppm	ASTM D5185m	220	**222**	341	360

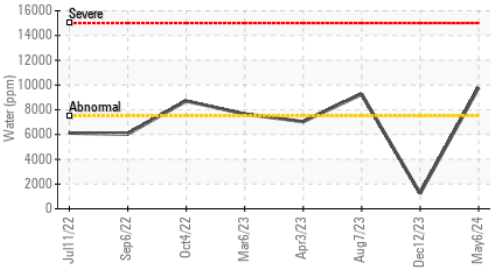
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**1**	2	<1
Sodium	ppm	ASTM D5185m		**2**	5	3
Potassium	ppm	ASTM D5185m	>20	**33**	25	35
Water	%	ASTM D6304	>0.750	▲ **0.978**	0.125	▲ 0.925
ppm Water	ppm	ASTM D6304	>7500	▲ **9780**	1250	▲ 9250

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	**516**	▲ 2329	▲ 2214
Particles >6µm		ASTM D7647	>160	**87**	▲ 283	● 180
Particles >14µm		ASTM D7647	>20	**13**	▲ 33	19
Particles >21µm		ASTM D7647	>4	**4**	▲ 9	4
Particles >38µm		ASTM D7647	>3	**0**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/11	**16/14/11**	▲ 18/15/12	▲ 18/15/11

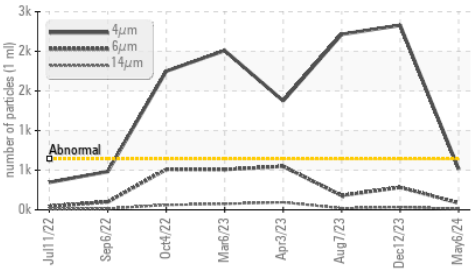
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.04	**0.194**	0.165	0.153

OIL ANALYSIS REPORT

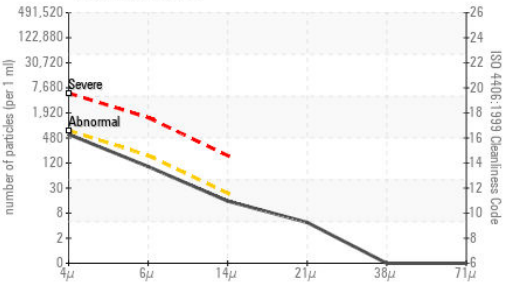
Water (KF)



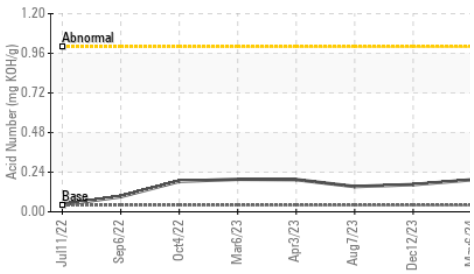
Particle Trend



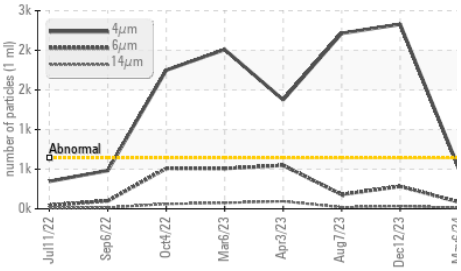
Particle Count



Acid Number



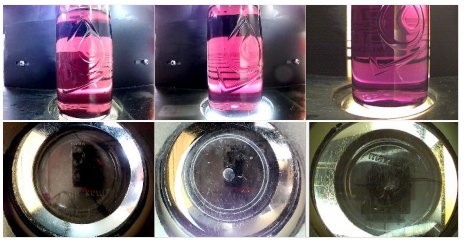
Particle Trend



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	>0.750	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

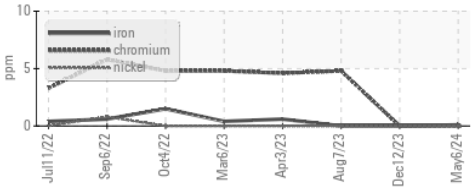
FLUID PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	.996	**1.001**	0.996	0.997
Visc @ 40°C	cSt	ASTM D445	10.55	**6.83**	7.11	7.72

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

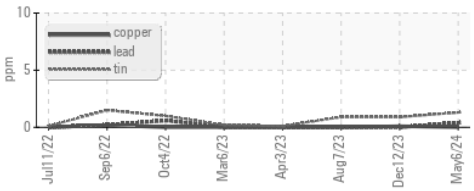


GRAPHS

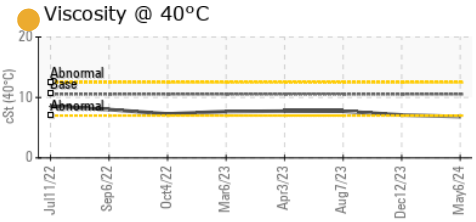
Ferrous Alloys



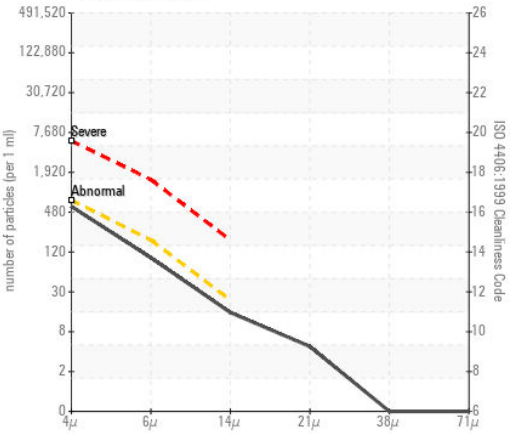
Non-ferrous Metals



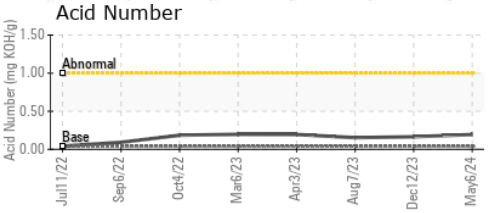
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0896084 **Received** : 09 May 2024
Lab Number : 06174542 **Tested** : 15 May 2024
Unique Number : 11020595 **Diagnosed** : 15 May 2024 - Sean Felton
Test Package : IND 2 (Additional Tests: KF, SpecGravity)

Certificate L2367

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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Report Id: PARDUBGA [WUSCAR] 06174542 (Generated: 05/15/2024 19:32:42) Rev: 1

Submitted By: TRENT MCADAMS