**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL** NORMAL **NORMAL** 

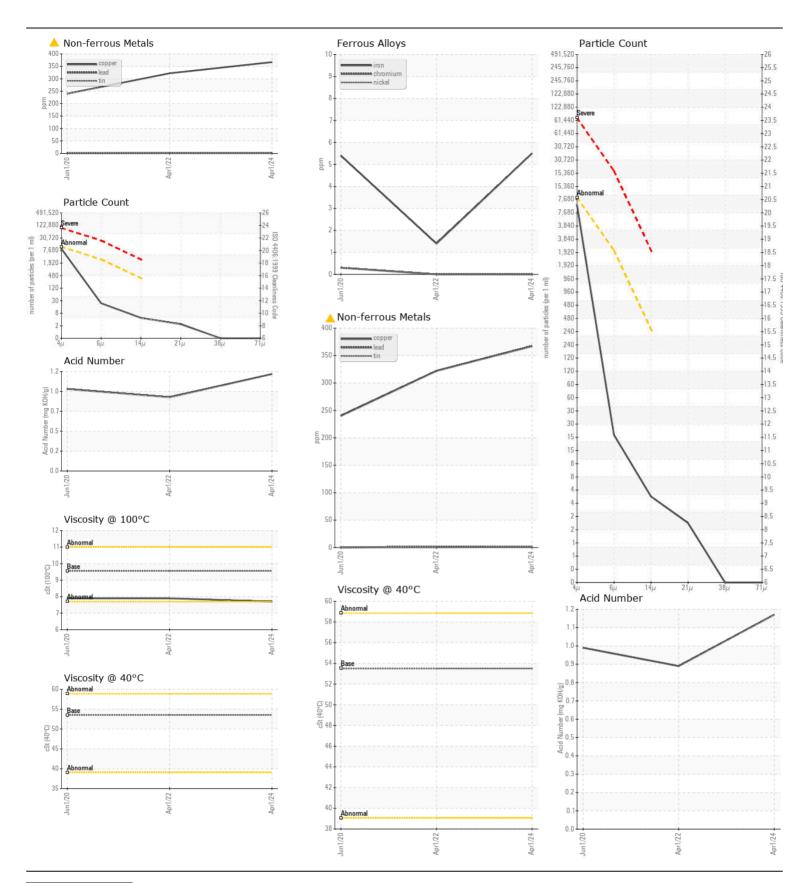
Machine Id

## **HAGIE HAGIE STS 10**

**OIL ANALYSIS REPORT** 

Component
Hydrostatic
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06151059	TR05515734	TR04999680
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		01 Apr 2024	01 Apr 2022	01 Jun 202
	Machine Age	hrs	Client Info		3010	2878	2575
	Oil Age	hrs	Client Info		1010	878	575
	Filter Age	hrs	Client Info		425	293	575
	Oil Changed		Client Info		Changed	Not Changd	Not Chang
	Filter Changed		Client Info		Changed	Changed	Not Chang
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>200	6	1	5
	Chromium	ppm	ASTM D5185m	>10	0	0	<1
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>50	3	2	3
	Lead	ppm	ASTM D5185m	>50	1	2	0
	Copper	ppm	ASTM D5185m	>200	<u> </u>	▲ 322	<u>^</u> 240
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	19	15	23
	Potassium	ppm	ASTM D5185m	>20	3	4	8
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>10000	8202		
	Particles >6µm		ASTM D7647	>2500	20		
	Particles >14μm		ASTM D7647	>320	4		
	Particles >21µm		ASTM D7647	>80	2		
	Particles >38µm		ASTM D7647	>20	0		
	Particles >71μm		ASTM D7647	>4	0		
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/11/9		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	2
	Boron	ppm	ASTM D5185m		150	142	125
The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		24	19	22
	Calcium	ppm	ASTM D5185m	4200	4530	4360	4718
	Phosphorus	ppm	ASTM D5185m		1417	1338	1442
	Zinc	ppm	ASTM D5185m	2000	1766	1707	1789
	Sulfur	ppm	ASTM D5185m		8693	6063	6932
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.17	0.89	0.990
	Visc @ 40°C	cSt	ASTM D445		48.6		
	Visc @ 100°C	cSt	ASTM D445		7.7	7.9	7.9
	Viscosity Index (VI)	Scale	ASTM D2270	164	124		





Certificate L2367

Laboratory Sample No. Lab Number

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

: TR06151059 : 06151059 Unique Number: 10981137

Test Package: MOB 2 (Additional Tests: KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

**Tested** : 17 Apr 2024 Diagnosed : 19 Apr 2024 - Jonathan Hester

: 16 Apr 2024

**ERIC JORDAN** 605 BOYD ST NEWPORT, AR US 72112-8049 Contact: ERIC JORDAN EW\_JORDAN@YAHOO.COM

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

F: