WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

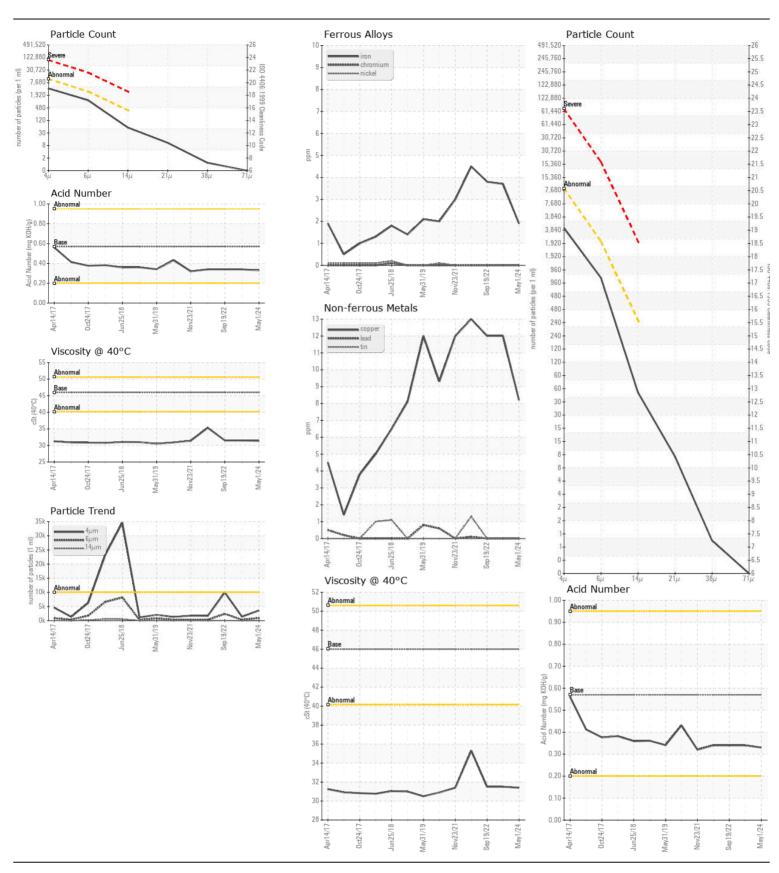
Machine Id

**GCS-3 EXIT** 

Hydraulic System

AW HYDRAULIC OIL ISO 46 (60 GAL)

AW HYDRAULIC OIL ISO 46 (60 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PTK0005295	PTK0004431	PTK0003598
	Sample Date		Client Info		01 May 2024	28 Aug 2023	19 Sep 202
	Machine Age	days	Client Info		0	0	0
	Oil Age	days	Client Info		0	0	0
	Filter Age	days	Client Info		0	0	0 N/A
	Oil Changed Filter Changed		Client Info		N/A N/A	N/A N/A	N/A
	Sample Status		Client inio		NORMAL	NORMAL	NORMAL
·						INOTTIVIAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	2	4	4
	Chromium	ppm	ASTM D5185m	>10	0	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		0	0	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		8	12	12
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal Yellow Metal	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	NONE NONE
<u></u>	Tellow Metal	scalar	Visuai	INOINL	INONE	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	0	0	<1
	Potassium	ppm	ASTM D5185m	>20	0	0	0
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647	>10000	3558	1410	9985
	Particles >6µm		ASTM D7647	>2500	962	330	2405
	Particles >14μm		ASTM D7647	>320	48	29	96
	Particles >21µm		ASTM D7647		9	9	19
	Particles >38µm		ASTM D7647		1	0	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		19/17/13	18/16/12	20/18/1
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	<1
Confirm oil type. The AN level is acceptable for this fluid. The condition	Boron	ppm	ASTM D5185m		0	0	0
of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	6	0
	Molybdenum	ppm	ASTM D5185m	5	<1	<1	1
	Manganese	ppm	ASTM D5185m	0.5	0	0	0
	Magnesium	ppm	ASTM D5185m		<1	6	2
	Calcium	ppm	ASTM D5185m		61 225	67	72
	Phosphorus	ppm	ASTM D5185m		335	341 405	333
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		393 888	405 938	394 940
	Acid Number (AN)	ppm mg KOH/g	ASTM D3163111		0.33	0.34	0.34
	Visc @ 40°C	cSt	ASTM D6045		31.4	31.5	31.5
	1100 @ 10 0	001	7.0 110 12770	10	31.4	31.0	01.0





Certificate L2367

Laboratory Sample No. Lab Number

: 06234839 Unique Number: 11123673

: PTK0005295 Test Package : MOB 2

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

: 12 Jul 2024 : 15 Jul 2024 Diagnosed

: 15 Jul 2024 - Don Baldridge

**HEIDTMAN STEEL** 10 NORTHGATE INDUSTRIAL DR GRANITE CITY, IL US 62040

Contact: MARK JACKSON mark.jackson@heidtman.com T: (618)798-5541

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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