WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

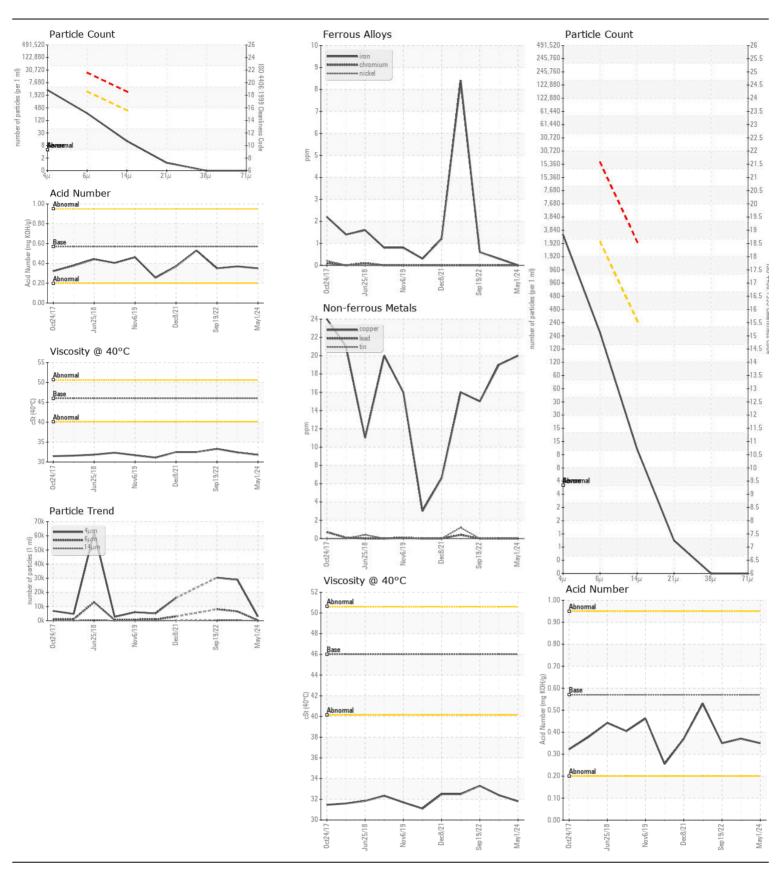
Machine Id

GCPK EXIT

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PTK0005297	PTK0004425	PTK000359
	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
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>20	0	<1	<1
	Chromium	ppm	ASTM D5185m	>10	0	0	0
All component wear rates are normal.	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	>10	0	0	0
	Lead	ppm	ASTM D5185m	>10	0	0	0
	Copper	ppm	ASTM D5185m	>75	20	19	15
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
OUTAMINATION	Potassium	ppm	ASTM D5185m		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	ppiii	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647	70.1	2992	28875	30437
	Particles >6µm		ASTM D7647	>2500	231	<u>△</u> 6525	▲ 8078
	Particles >14µm		ASTM D7647		11	280	<u>▲</u> 515
	Particles >21µm		ASTM D7647		1	53	<u>▲</u> 119
	Particles >38µm		ASTM D7647		0	1	2
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		15/11	<u>^</u> 20/15	2 0/16
	Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	<1
EOID CONDITION	Boron	ppm	ASTM D5185m	5	0	0	0
Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	6	0
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m	25	<1	6	2
	Calcium	ppm	ASTM D5185m	200	61	58	61
	Phosphorus	ppm	ASTM D5185m		341	355	349
	Zinc	ppm	ASTM D5185m		412	435	446
	Sulfur	ppm	ASTM D5185m		903	986	1043
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.37	0.35
	Visc @ 40°C	cSt	ASTM D445		31.8	32.4	33.3





Certificate L2367

Laboratory Sample No. Lab Number

: PTK0005297 : 06234844

Unique Number: 11123678 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 **Tested**

: 15 Jul 2024 : 15 Jul 2024 - Don Baldridge Diagnosed

HEIDTMAN STEEL 10 NORTHGATE INDUSTRIAL DR

GRANITE CITY, IL US 62040 Contact: Rudy Villar

Rudy.Villar@Heidtman.com T:

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)

F: