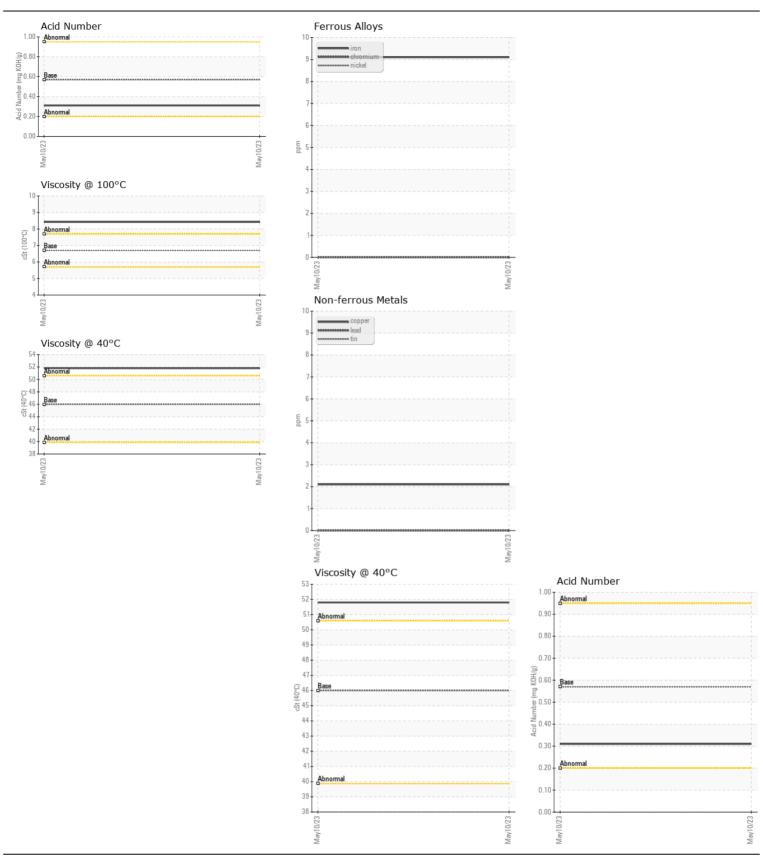
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Machine Id

220605 - SUBURBAN PROPANE							
Component Hydraulic System							
AW HYDRAULIC OIL ISO 46 ( QTS)							
	T		Madaal			Listand	l listan O
PECOMMENDATION  Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number Sample Date		Client Info		WC0778154		
	Machine Age	hrs	Client Info		10 May 2023 2020		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		9		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>0.1	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	5	0		
	Barium	ppm	ASTM D5185m	5	0		
	Molybdenum	ppm	ASTM D5185m	5	<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	25	3		
	Calcium	ppm	ASTM D5185m	200	45		
	Phosphorus	ppm	ASTM D5185m	300	335		
	Zinc	ppm	ASTM D5185m	370	401		
	Sulfur	ppm	ASTM D5185m	2500	1519		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31		
	Visc @ 40°C	cSt	ASTM D445	46	51.8		
	Visc @ 100°C	cSt	ASTM D445		8.42		
	Viscosity Index (VI)	Scale	ASTM D2270	97	137		





Laboratory Sample No. Lab Number **Unique Number** 

: WC0778154 : 05878830 : 10523933

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Jun 2023 Diagnosed

: 28 Jun 2023 Diagnostician : Jonathan Hester

Test Package : MOB 2 ( Additional Tests: KV100, VI ) 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)

**HIAB USA - PORTSMOUTH** 3115 WATSON ST PORTSMOUTH, VA

US 23707 Contact: THOMAS ASBELL thomas.asbell@cargotec.com T: (757)558-4590

F: x: