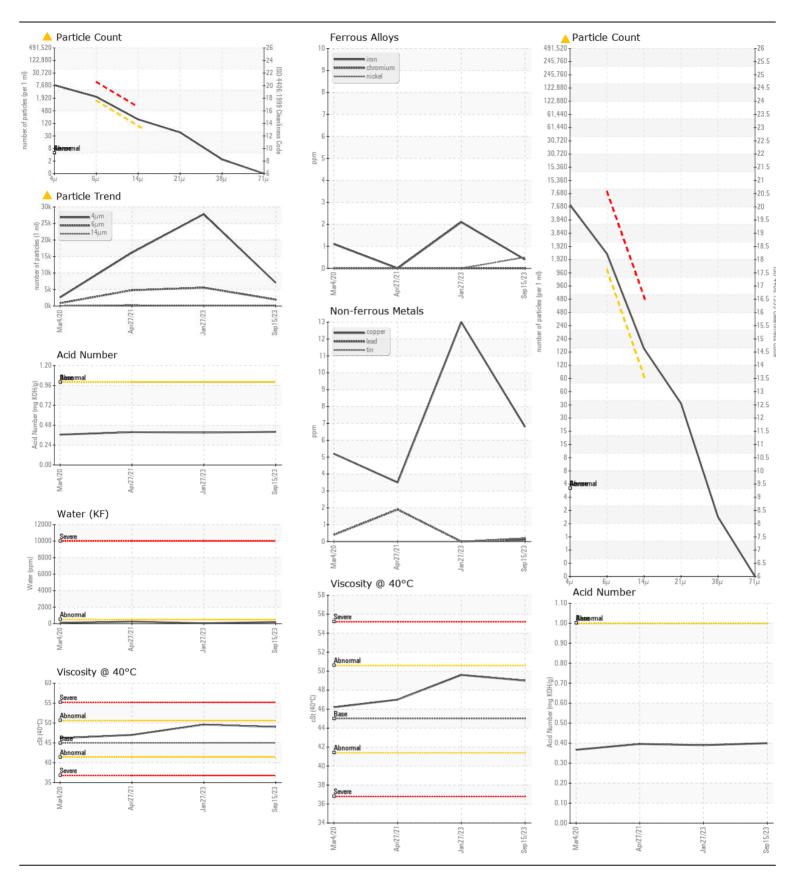
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

KAESER AS 20T 6269970 (S/N 1047)

Component Compressor Fluid KARCER SIGMA (OFM) M 460 (CAL)							
KAESER SIGMA (OEM) M-460 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The filter change at	Sample Number		Client Info		KCPA000614		KCP32679
the time of sampling has been noted. Resample at the next service	Sample Date		Client Info		15 Sep 2023		27 Apr 2021
interval to monitor.	Machine Age	hrs	Client Info		17858	12793	11301
	Oil Age	hrs	Client Info		0	2752	3073
	Filter Age	hrs	Client Info		0	2752	3073
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	<1	2	0
WEAT.	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	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		<1	0	2
	Copper	ppm	ASTM D5185m		7	13	4
	Tin	ppm		>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-25	<1	<1	2
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	0	7
There is a high amount of particulates present in the oil.	Water	%	ASTM D5165111	>0.05	0.020	0.005	0.025
	ppm Water	ppm	ASTM D6304		205.4	55.2	256.3
	Particles >4µm	ppiii	ASTM D0304	>5000	7029	27810	16148
	Particles >6µm		ASTM D7647	>1300	△ 1951	△ 5568	△ 4786
	Particles >14µm		ASTM D7647		▲ 164	▲ 109	<u> </u>
	Particles >21µm		ASTM D7647		<u> </u>	<u>^</u> 21	<u>△</u> 96
	Particles >38µm		ASTM D7647		2	1	3
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/15	<u>^</u> 22/20/14	▲ 19/15
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.05	NEG	NEG	NEG
ELUID CONDITION	Sodium	nnm	ASTM D5185m		6	0	20
FLUID CONDITION	Boron	ppm	ASTM D5185m	0	6		22
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	30
	Molybdenum	ppm	ASTM D5165III		4 0	0	0
	Manganese	ppm	ASTM D5165III	U	0	0	0
	Magnesium	ppm	ASTM D5185m	100	28	2	73
	Calcium	ppm	ASTM D5185m		20 <1	0	0
	Phosphorus		ASTM D5185m		<1	4	1
	Zinc	ppm	ASTM D5185m		15	0	3
	Sulfur	ppm	ASTM D5185m		21729	17643	20467
	Acid Number (AN)	mg KOH/g	ASTM D3103111		0.40	0.39	0.396
	Visc @ 40°C	cSt	ASTM D6045		49.0	49.6	47.0
	¥155 @ 1 0 0	001	TO THE INTER	10	40.0	40.0	47.0





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

: KCPA000614 : 05971460

: 10683410

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Oct 2023 Recieved Diagnosed

: 10 Oct 2023 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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) **MARKLEY MOTORS**

3401 S COLLEGE AVE FORT COLLINS, CO US 80525

Contact: G. DEGROOT gdegroot@markleymotors.com

T:

F: