

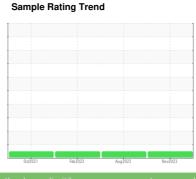
OIL ANALYSIS REPORT

KAESER S-460

KAESER 1331 3-D PRINTER - WINNEBAGO INDUSTRIES

Component

Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		0ct202	1 Feb2022	Aug ² 022 No	v2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UCH06015226	UCH05657493	UCH05479292
Sample Date		Client Info		09 Nov 2023	22 Aug 2022	21 Feb 2022
Machine Age	hrs	Client Info		32469	22040	17609
Oil Age	hrs	Client Info		10429	4431	7136
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	2
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	14	6	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	<1	6	5
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	12	32	42
Calcium	ppm	ASTM D5185m	2	0	0	<1
Phosphorus	ppm	ASTM D5185m		9	3	8
Zinc	ppm	ASTM D5185m		23	5	2
Sulfur	ppm	ASTM D5185m		15451	18367	15320
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		1	11	23
Potassium	ppm	ASTM D5185m	>20	0	2	2
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
A atal Nicosala au (ANI)		4 OTA 1 DOC 45	0.4	0.04	0.07	0.00

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

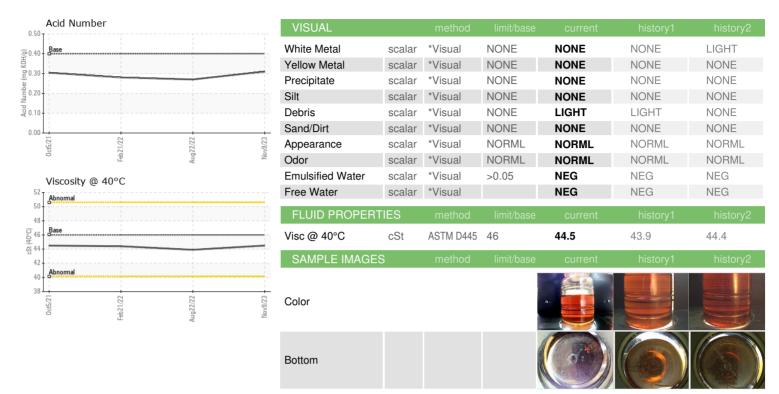
0.27

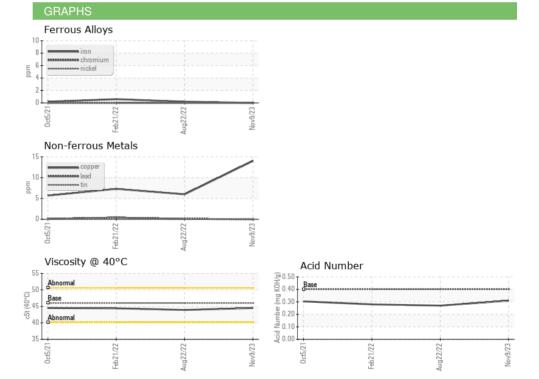
0.31

0.28



OIL ANALYSIS REPORT









Certificate L2367

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

: 06015226 : 10754370 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCH06015226 Received Diagnosed

: 26 Nov 2023 Diagnostician

: 22 Nov 2023 : Don Baldridge **DELTA INDUSTRIES - CEDAR RAPIDS** 6540 4TH ST SW

CEDAR RAPIDS, IA US 52404

Contact: MICHAEL FERRIS wearcheck@deltaind.net

T: (319)862-2500 F: (319)862-2501

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)