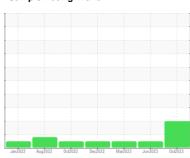


OIL ANALYSIS REPORT

Sample Rating Trend







STACKER 1

Component **Hydraulic System**

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

		Jan 2022	Aug2022 Oct2022	Dec2022 Mar2023 Jun2023	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0004496	PTK0004483	PTK0003008
Sample Date		Client Info		25 Oct 2023	20 Jun 2023	08 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	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	>10	<1	1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	26	19	17
Tin	ppm	ASTM D5185m	>10	0	0	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	2
Barium	ppm	ASTM D5185m		<1	5	0
Molybdenum	ppm	ASTM D5185m		125	114	111
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	1	2
Calcium	ppm	ASTM D5185m		61	42	56
Phosphorus	ppm	ASTM D5185m		423	403	426
Zinc	ppm	ASTM D5185m		445	397	421
Sulfur	ppm	ASTM D5185m		2227	2018	2203
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	<1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	10969	923	1645
Particles >6µm		ASTM D7647	>1300	A 3829	264	380
Particles >14μm		ASTM D7647	>160	▲ 376	28	17
Particles >21µm		ASTM D7647	>40	<u> 111</u>	7	2
Particles >38μm		ASTM D7647	>10	4	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	17/15/12	18/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.54

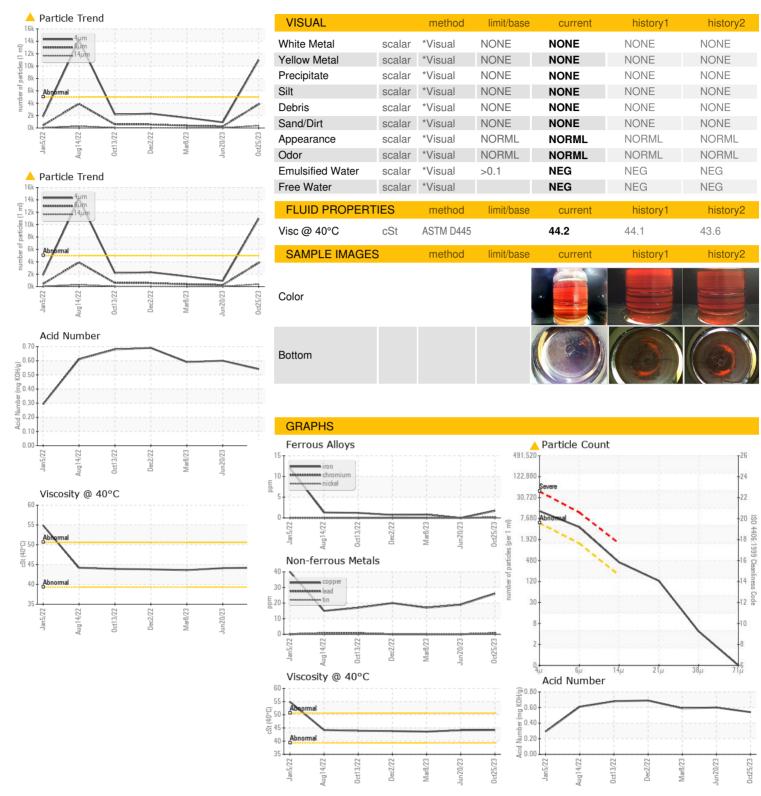
Acid Number (AN) mg KOH/g ASTM D8045

0.59

0.60



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: 05996663

Unique Number : 10725023 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 02 Nov 2023 : PTK0004496 Received

> Diagnosed : 03 Nov 2023 : Wes Davis Diagnostician

Contact: BRENT WENTWORTH brentwentworth@libertycarton.com

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)

LIBERTY CARTON

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