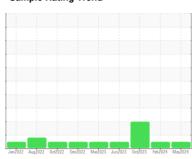


OIL ANALYSIS REPORT

Sample Rating Trend







STACKER 1

Component **Hydraulic System**

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

ათა2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0005608	PTK0005369	PTK0004496
Sample Date		Client Info		30 May 2024	01 Feb 2024	25 Oct 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				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	0	2
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	<1	1	<1
Copper	ppm	ASTM D5185m	>75	26	26	26
Tin	ppm	ASTM D5185m	>10	<1	<1	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	<1	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		122	117	125
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		2	4	2
Calcium	ppm	ASTM D5185m		52	61	61
Phosphorus	ppm	ASTM D5185m		404	466	423
Zinc	ppm	ASTM D5185m		436	446	445
Sulfur	ppm	ASTM D5185m		1911	1933	2227
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	1	1	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	827	670	△ 10969
Particles >6µm		ASTM D7647	>1300	199	177	▲ 3829
Particles >14µm		ASTM D7647	>160	9	15	▲ 376
Particles >21µm		ASTM D7647	>40	2	3	▲ 111
Particles >38µm		ASTM D7647	>10	0	0	4
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/10	17/15/11	<u>^</u> 21/19/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

0.53

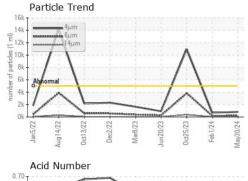
.52

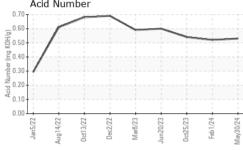
0.54

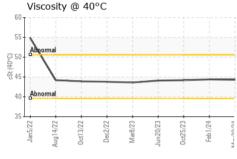
Submitted By: MIKE LEEN

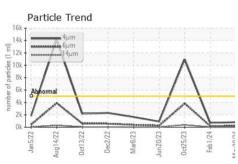


OIL ANALYSIS REPORT









VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FILID PROPERTIES		method	limit/hase	current	history1	history2

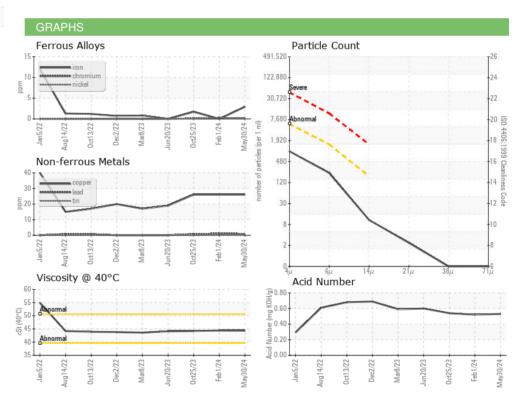
I LOID I HOI LIT	1120				
Visc @ 40°C	cSt	ASTM D445	44.3	44.4	44.2

SAMPI	INAA	\cap \vdash \cap
SAIVIE	IIVIA	UTCO .

Bottom

Color









Certificate 12367

Laboratory Sample No.

Lab Number : 06207738 Unique Number : 11075199 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PTK0005608

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

: 12 Jun 2024 : 13 Jun 2024

Diagnosed : 13 Jun 2024 - Wes Davis

US 55426 Contact: BRENT WENTWORTH brentwentworth@libertycarton.com T: (763)540-9589

* - 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

MINNEAPOLIS, MN

870 LOUISIANNA AVE S

F: