

OIL ANALYSIS REPORT

Sample Rating Trend





HOTLINE/PUSHER FURNACES #1 PUSHER AUX HYD 1406-A11-0090

Hydraulic System

BENZ OIL ULTRA GUARD 552 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

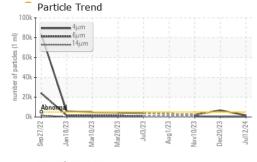
The AN level is at the top-end of the recommended limit.

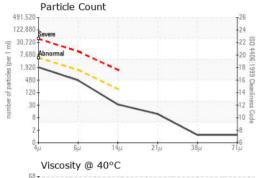
		Sep2022 Jan	2023 Mar2023 Mar2023	Jul2023 Aug2023 Nov2023 Dec20	23 Jul2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004508	KFS0003110	KFS0004826
Sample Date		Client Info		12 Jul 2024	20 Dec 2023	10 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	J	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	>20	3	3	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	5
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	2	1
Tin	ppm	ASTM D5185m	>20	<1	0	5
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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	2	0
Calcium	ppm	ASTM D5185m		1	3	1
Phosphorus	ppm	ASTM D5185m		366	376	345
Zinc	ppm	ASTM D5185m		<1	0	8
Sulfur	ppm	ASTM D5185m		1350	1291	1028
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1754	6708	2349
Particles >6µm		ASTM D7647	>1300	411	364	647
Particles >14μm		ASTM D7647	>160	29	16	32
Particles >21µm		ASTM D7647	>40	10	3	6
Particles >38μm		ASTM D7647	>10	1	0	1
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	20/16/11	18/17/12
On Oleaniness		(-)				

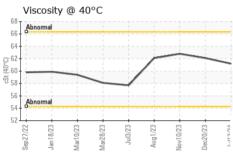
5.68

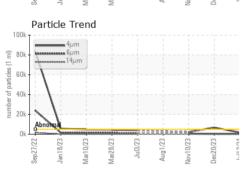


OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLID DDODEDT	ELLID DDODEDTIES		Line it /le e e e		la i a t a m ed	la i a ta m . O
FLUID PROPERT	IES					

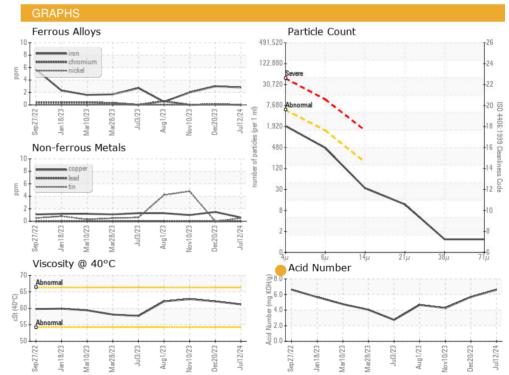
Visc @ 40°C	cSt	ASTM D445	61.2	62.1	62.8

SAME	MACE	$^{\circ}$
SAIVIE	ласте	$\overline{}$

Color

Bottom









Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06237712 Unique Number : 11126546

: KFS0004508

Received **Tested** Diagnosed

: 16 Jul 2024 : 17 Jul 2024

: 18 Jul 2024 - Jonathan Hester

4805 SECOND STREET MUSCLE SHOALS, AL US 35661 Contact: Joel Even

CONSTELLIUM

joel.even@constellium.com

T: (256)740-7490

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)