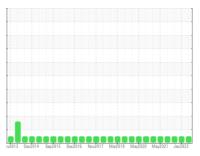


OIL ANALYSIS REPORT

CHEATHAM ANNEX 1B 1727 CRANE 1B (S/N 62510225)

Component Gearbox

NOT GIVEN (--- GAL)



Sample Rating Trend



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

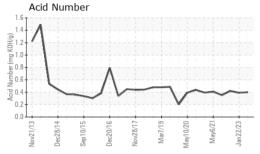
Fluid Condition

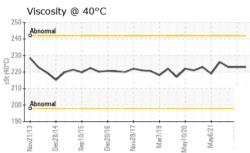
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		742013 D0020	SUPERIO DESERVIO IN	over majere majerer majer	LI VIIILULU		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0752660	WC0752679	WC0513656	
Sample Date		Client Info		01 Oct 2023	22 Jan 2023	24 Apr 2022	
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				NORMAL	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<1	2	2	
Chromium	ppm	ASTM D5185m	>15	0	<1	<1	
Nickel	ppm	ASTM D5185m	>15	0	0	2	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	4	0	1	
Lead	ppm	ASTM D5185m	>100	<1	<1	0	
Copper	ppm	ASTM D5185m	>200	0	<1	<1	
Tin	ppm	ASTM D5185m	>25	<1	1	<1	
Antimony	ppm	ASTM D5185m	>5				
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	<1	1	
Barium	ppm	ASTM D5185m		0	12	0	
Molybdenum	ppm	ASTM D5185m		0	<1	0	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		4	3	0	
Calcium	ppm	ASTM D5185m		0	5	2	
Phosphorus	ppm	ASTM D5185m		1052	908	980	
Zinc	ppm	ASTM D5185m		0	18	0	
Sulfur	ppm	ASTM D5185m		937	776	720	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	2	3	3	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	3	3	2	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.39	0.42	
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	>0.2	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG		TAREG MAG	



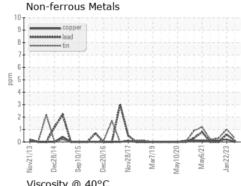
OIL ANALYSIS REPORT

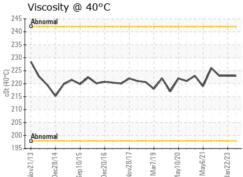


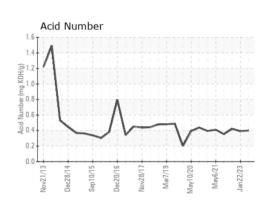




GRAPHS Ferrous Alloys











Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10672042 Test Package : IND 2

: WC0752660 : 05965491

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023 Diagnosed Diagnostician : Don Baldridge

: 02 Oct 2023

CARGOTEC MARINE - MACGREGOR

525 BYRON ST, SUITE B CHESAPEAKE, VA US 23320

Contact: TARMO MAGI

tarmo.magi@macgregor.com T: (757)558-4584

F: (757)558-4581

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)