

OIL ANALYSIS REPORT

Sample Rating Trend



VILTER CCUP-FGC

Compressor Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

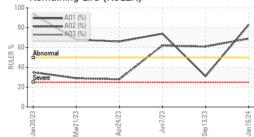
Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of antioxidants present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

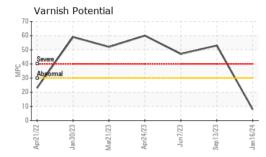
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0896671	WC0782163	WC0782157
Sample Date		Client Info		16 Jan 2024	13 Sep 2023	07 Jun 2023
Machine Age	hrs	Client Info		104000	82000	38444
Oil Age	hrs	Client Info		104000	0	22444
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	0	0
Lead	ppm	ASTM D5185m	>65	0	0	0
Copper	ppm	ASTM D5185m	>65	<1	0	0
Tin	ppm	ASTM D5185m	>10	<1	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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		46	23	31
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		182	274	281
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	0	0	0
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304		0.004	0.004	0.002
ppm Water	ppm	ASTM D6304	>1000	50	49.1	16.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1203	730	417
Particles >6µm		ASTM D7647	>2500	428	215	154
Particles >14µm		ASTM D7647	>320	66	19	17
Particles >21µm		ASTM D7647	>80	24	4	7
Particles >38µm		ASTM D7647	>20	2	0	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/16/13	17/15/11	16/14/11

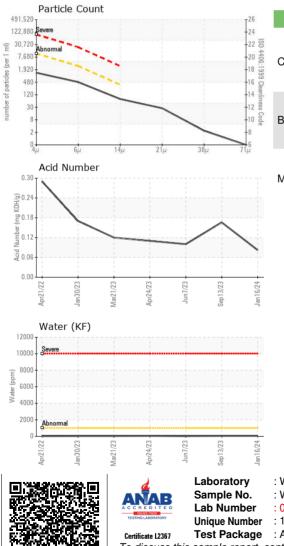


OIL ANALYSIS REPORT

Remaining Life (RULER)







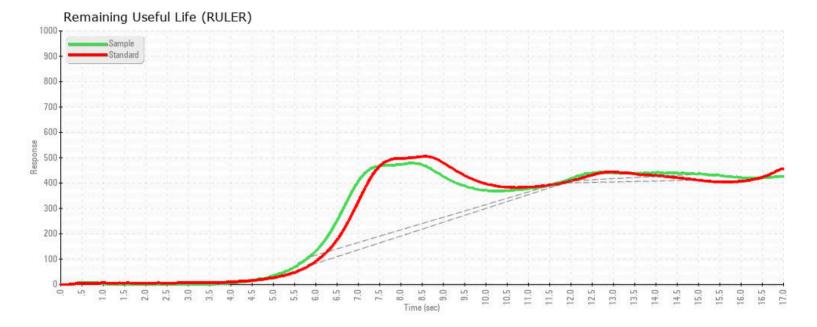
Acid Number (AN)mg KOH/gASTM D80450.0820.1660.10Anti-Oxidant 1%ASTM D6971<25833174Anti-Oxidant 2%ASTM D6971<25696162MPC Varnish PotentialScaleASTM D7843>1585347VISUALmethodlimit/basecurrenthistory1histWhite Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNONENONENONENONEOdorscalar*VisualNORMLNORMLNORMLNORCodorscalar*VisualNORMLNORMLNORMLNORCodorscalar*Visual>0.1NEGNEGNEGFree Waterscalar*Visual>0.1NEGNEGNEGVisualVisual>0.1NEGNEGNEGNEGFullD PROPERTIESmethodlimit/basecurrenthistory1histVisc @ 40°CcStASTM D445102102102102	tory2
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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 NORTH CAROLINA STATE UNIVERSITY : WC0896671 Recieved : 16 Jan 2024 621 MOTOR POOL DR, FACILITIES DIVISION WAREHOUSE : 06061956 Diagnosed :01 Feb 2024 RALEIGH, NC : 10833338 Diagnostician : Doug Bogart US 27607 Test Package : AOM 1 (Additional Tests: KF) Contact: PAUL WALKER To discuss this sample report, contact Customer Service at 1-800-237-1369. apwalke3@ncsu.edu * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)513-3646 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: PAUL WALKER

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