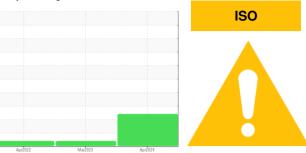


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MACHINE 15 - PROGRAM (S/N 991405-5-056R)

Hydraulic System

SAFETY-KLEEN PERFORMANCE PLUS HYDRAULIC AW 46 (12 GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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.

RAULIC AW 46 (12 GAL)						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910089	WC0800156	WC0668645
Sample Date		Client Info		01 Apr 2024	27 Mar 2023	07 Apr 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Filtered
Sample Status				ABNORMAL	MARGINAL	MARGINAL
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	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	1	2	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	0	0
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>20	3	13	11
Tin	ppm	ASTM D5185m	>20	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		4	18	7
Calcium	ppm	ASTM D5185m	48	63	75	69
Phosphorus	ppm	ASTM D5185m	340	394	397	355
Zinc	ppm	ASTM D5185m	430	451	451	425
Sulfur	ppm	ASTM D5185m		982	1155	807
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	15153	983	2375
Particles >6µm		ASTM D7647	>1300	<u>▲</u> 5903	202	375
Particles >14µm		ASTM D7647	>160	823	21	34
Particles >21µm		ASTM D7647	>40	<u> </u>	7	12
Particles >38µm		ASTM D7647	>10	<u> </u>	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	17/15/12	18/16/12

Acid Number (AN)

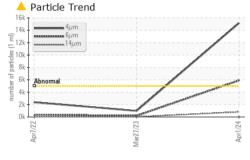
mg KOH/g ASTM D8045

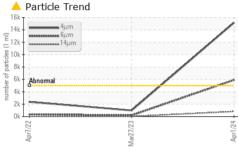
0.28 0.32

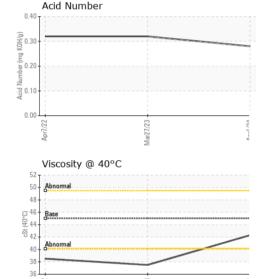
Contact/Location: ERIC LOYA - CONSAM

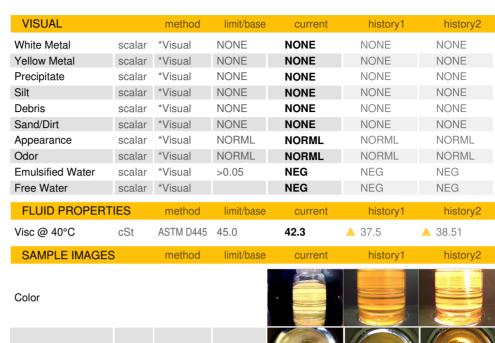


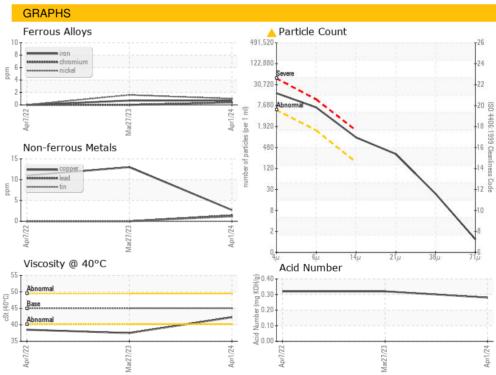
OIL ANALYSIS REPORT















Certificate 12367

Laboratory Sample No. Lab Number : 06147306 Unique Number : 10977384

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0910089

Bottom

Test Package : IND 2

Received : 12 Apr 2024 **Tested** Diagnosed

: 15 Apr 2024 : 15 Apr 2024 - Wes Davis

Altium Packaging - SAMUELSON - Plant 1302A 1070 SAMUELSON ST CITY OF INDUSTRY, CA

US 91748-1219 Contact: ERIC LOYA

Eric.Loya@altiumpkg.com T:

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)

F: