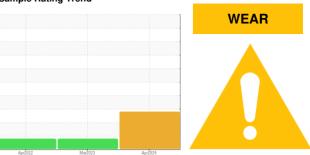


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MACHINE 13 - PROGRAM (S/N 4428)

Hydraulic System

SAFETY-KLEEN PERFORMANCE PLUS HYDRAULIC AW 46 (55 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910070	WC0800151	WC0668632
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	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	٧	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	2	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	0	0
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>20	<u>^</u> 94	<u>▲</u> 62	△ 20
Tin	ppm	ASTM D5185m	>20	2	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		2	2	4
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		3	2	2
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		17	24	14
Calcium	ppm	ASTM D5185m	48	97	80	70
Phosphorus	ppm	ASTM D5185m	340	460	356	303
Zinc	ppm	ASTM D5185m	430	539	455	396
Sulfur	ppm	ASTM D5185m		1220	1097	680
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	5	3	6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	22676	3465	2177
Particles >6µm		ASTM D7647	>1300	<u> </u>	597	308
Particles >14μm		ASTM D7647	>160	<u>^</u> 219	45	31
Particles >21µm		ASTM D7647	>40	<u>^</u> 61	15	10
Particles >38μm		ASTM D7647	>10	2	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/19/15</u>	19/16/13	18/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

0.28

0.29

0.42



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WC0910070 : 06147302 Unique Number : 10977380 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested**

: 15 Apr 2024 Diagnosed : 16 Apr 2024 - Don Baldridge

1070 SAMUELSON ST CITY OF INDUSTRY, CA

US 91748-1219 Contact: ERIC LOYA Eric.Loya@altiumpkg.com

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)

Report Id: CONSAM [WUSCAR] 06147302 (Generated: 04/16/2024 10:57:40) Rev: 1

Contact/Location: ERIC LOYA - CONSAM

T:

F: