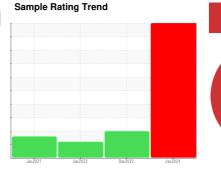


OIL ANALYSIS REPORT

PLANT HP400 SH HYD SYSTEM 00454

Hydraulic System

AW HYDRAULIC OIL ISO 32 (70 GAL)





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

The iron level is severe. Bearing and/or bushing wear is indicated.

Contamination

There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

▲ Fluid Condition

The oil viscosity is higher than normal. Confirm oil

	Jan2021 Jan2022 Dec2022 Jan2024						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0090544	WC0661526	WC0542190	
Sample Date		Client Info		21 Jan 2024	01 Dec 2022	31 Jan 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				SEVERE	ABNORMAL	ABNORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR META	LS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	194	3	3	
Chromium	ppm	ASTM D5185m	>10	<1	1	<1	
Nickel	ppm	ASTM D5185m	>10	2	0	<1	
Titanium	ppm	ASTM D5185m		3	0	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>10	A 73	0	<1	
Lead	ppm	ASTM D5185m	>10	△ 37	2	2	
Copper	ppm	ASTM D5185m	>75	<u> </u>	<1	3	
Tin	ppm	ASTM D5185m	>10	22	0	<1	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	5	31	0	2	
Barium	ppm	ASTM D5185m	5	0	<1	0	
Molybdenum	ppm	ASTM D5185m	5	6	<1	<1	
Manganese	ppm	ASTM D5185m		3	0	0	
Magnesium	ppm	ASTM D5185m	25	199	5	4	
Calcium	ppm	ASTM D5185m	200	311	180	187	
Phosphorus	ppm	ASTM D5185m	300	306	334	336	
Zinc	ppm	ASTM D5185m	370	80	426	436	
Sulfur	ppm	ASTM D5185m	2500	8836	873	864	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	296	2	1	
Sodium	ppm	ASTM D5185m		28	0	<1	
Potassium	ppm	ASTM D5185m	>20	39	<1	<1	
FLUID CLEAN	ILINESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	610956	<u></u> 102994		
Particles >6µm		ASTM D7647	>1300	525018	<u>^</u> 22435		
Particles >14µm		ASTM D7647	>160	144317	<u> </u>		
Particles >21µm		ASTM D7647	>40	20295	<u></u> 118		
Particles >38µm		ASTM D7647		4 25	1		
Particles >71µm		ASTM D7647	>3	0	0		
011 01 11							

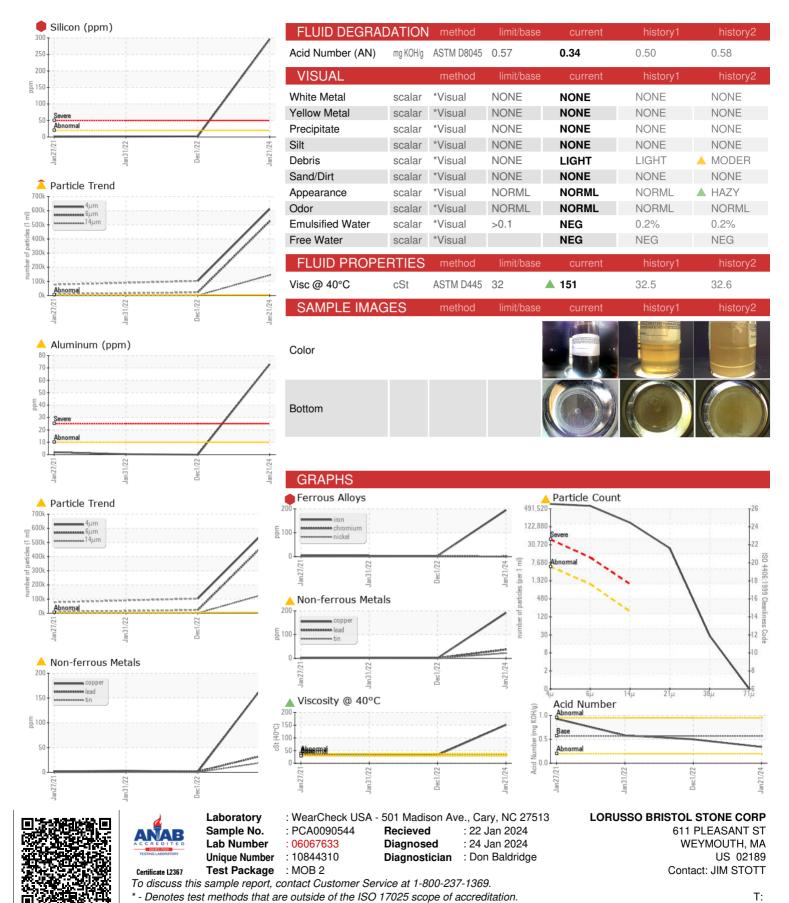
ISO 4406 (c) >19/17/14 **△ 26/26/24**

Oil Cleanliness

24/22/17



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (781)337-8274