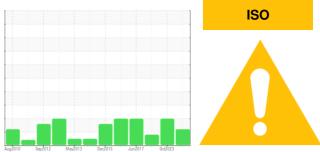


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SHOP BUILT RIG 15-B 025594

Port Hydraulic System Fluic PROTECK AW 68 (110 GAL)

DIAGNOSIS

Recommendation

The filter 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 silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037429	RP0018385	RP177087
Sample Date		Client Info		05 Apr 2024	29 Oct 2023	01 Dec 2017
Machine Age	hrs	Client Info		0	3175	0
Oil Age	hrs	Client Info		0	506	0
Oil Changed		Client Info		Filtered	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	16	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	1	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm		>20	4	4	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m	-			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
			IIIIII/Dase			
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		-	0	
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		12	0	0
Calcium	ppm	ASTM D5185m				
Phosphorus	ppm	ASTM D5185m		235	211	314
Zinc	ppm	ASTM D5185m		52	51	30
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	6
Sodium	ppm	ASTM D5185m		3	2	<1
Potassium	ppm	ASTM D5185m	>20	5	0	<1
Water	%	ASTM D6304	<u>\0 05</u>		0.003	0.003
				0.003		
ppm Water	ppm	ASTM D6304		0.003 34	36.6	30
ppm Water FLUID CLEANLIN		ASTM D6304 method				
		method ASTM D7647	>500 limit/base >5000	34	36.6 history1 ▲ 86753	30
FLUID CLEANLIN		method	>500 limit/base >5000	34 current	36.6 history1	30 history2
FLUID CLEANLIN Particles >4µm		method ASTM D7647	>500 limit/base >5000	34 current ▲ 14637	36.6 history1 ▲ 86753	30 history2 ▲ 28209
FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >5000 >1300 >160 >40	34 current ▲ 14637 ▲ 2626	36.6 history1 ▲ 86753 ▲ 17637	30 history2 ▲ 28209 ▲ 2589
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm		method ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >5000 >1300 >160 >40	34 <u>current</u> ▲ 14637 ▲ 2626 153	36.6 history1 ▲ 86753 ▲ 17637 ▲ 621	30 history2 ▲ 28209 ▲ 2589 62
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >5000 >1300 >160 >40 >10	34 <u>current</u> ▲ 14637 ▲ 2626 153 35	36.6 history1 ▲ 86753 ▲ 17637 ▲ 621 ▲ 150	30 history2 ▲ 28209 ▲ 2589 62 15
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >5000 >1300 >160 >40 >10	34 current ▲ 14637 ▲ 2626 153 35 2	36.6 history1 ▲ 86753 ▲ 17637 ▲ 621 ▲ 150 7	30 history2 ▲ 28209 ▲ 2589 62 15 5
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm	ESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >5000 >1300 >160 >40 >10 >3	34 current ▲ 14637 ▲ 2626 153 35 2 0	36.6 history1 ▲ 86753 ▲ 17637 ▲ 621 ▲ 150 7 1	30 history2 ▲ 28209 ▲ 2589 62 15 5 1

Contact/Location: BRENT CARLINE - PARNEWLA Page 1 of 2



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limit/base

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NORML

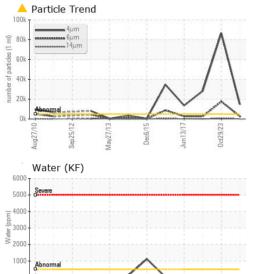
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Acid Number

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Pipe 0.1

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() 70 40°C

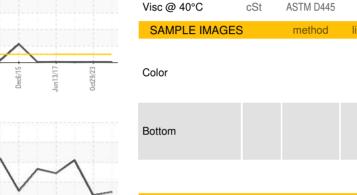
र्छ ६५

60

55

Aug27/1

vug27



VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

Emulsified Water

FLUID PROPERTIES



history1

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history

NEG

NEG

63.2

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

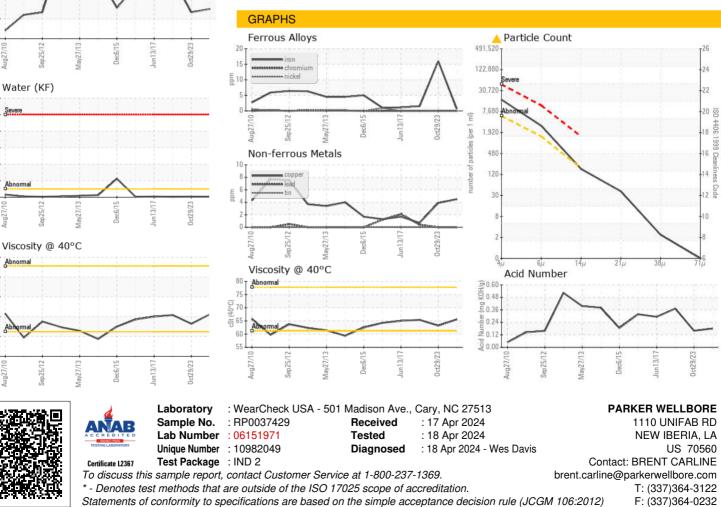
NORML

history2

NEG

NEG

65.42



Report Id: PARNEWLA [WUSCAR] 06151971 (Generated: 04/18/2024 19:43:54) Rev: 1

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