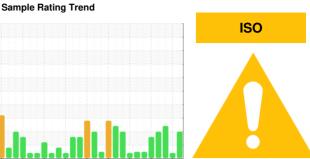


OIL ANALYSIS REPORT



Paul G. Blazer

[Paul G. Blazer] Hydraulic - Flanking

Hydraulic System

R&O OIL ISO 32 (150 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Kirk James

Wear

All component wear rates are normal.

Contamination

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

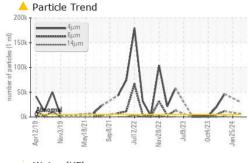
Fluid Condition

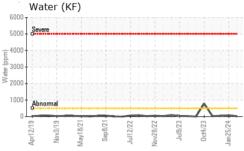
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

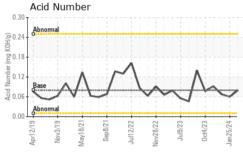
		or2019 Nov20	19 May2021 Sep2021 J	ul2022 Nov2022 Jul2023 Oct202	3 Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0719262	WC0845769	WC0845847
Sample Date		Client Info		14 Apr 2024	25 Jan 2024	21 Dec 2023
Machine Age	hrs	Client Info		6050	4464	3864
Oil Age	hrs	Client Info		6050	4464	3864
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	2	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	<1	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	<1	0	0
Calcium	ppm	ASTM D5185m	5	7	4	9
Phosphorus	ppm	ASTM D5185m	100	65	59	59
Zinc	ppm	ASTM D5185m	25	85	70	67
Sulfur	ppm	ASTM D5185m	1500	177	188	181
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.05	0.002	0.007	0.004
ppm Water	ppm	ASTM D6304	>500	19	80	49
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	29446		▲ 46322
Particles >6µm		ASTM D7647	>1300	5840		<u></u> 11918
Particles >14µm		ASTM D7647	>160	<u>▲</u> 312		△ 751
Particles >21µm		ASTM D7647	>40	<u>^</u> 75		△ 193
Particles >38µm		ASTM D7647	>10	3		<u> </u>
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/20/15</u>		△ 23/21/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.08	0.06	0.068

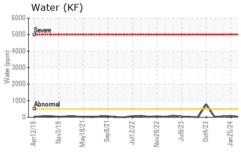


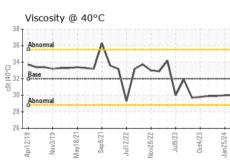
OIL ANALYSIS REPORT

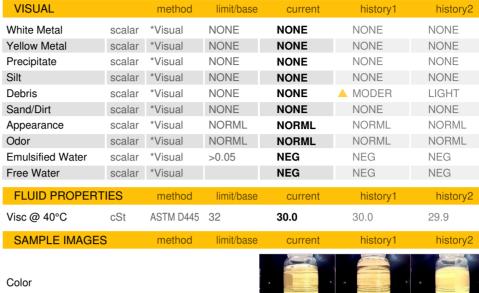






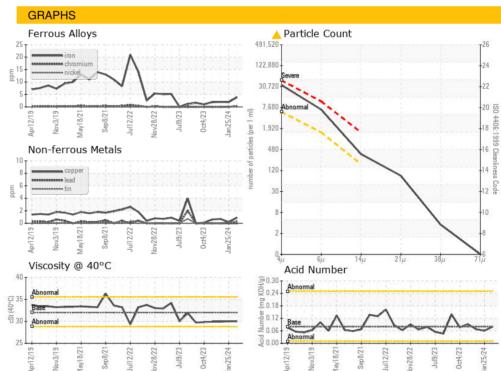






Bottom









Laboratory Lab Number

Sample No.

Unique Number : 10993111

: WC0719262 : 06157688

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

Tested Diagnosed

: 23 Apr 2024 : 24 Apr 2024

: 25 Apr 2024 - Jonathan Hester

101 12TH ST CATLETTSBURG, KY US 41169 Contact: CORY GUMBERT

Test Package : IND 2 (Additional Tests: KF) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

cagumbert@marathonpetroleum.com T: (606)585-3950

MARATHON PETROLEUM CO.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: MARCAT [WUSCAR] 06157688 (Generated: 04/25/2024 15:28:00) Rev: 1

Submitted By: M/V PAUL BLAZER

F: x: