

OIL ANALYSIS REPORT

Sample Rating Trend



Paul G. Blazer [Paul G. Blazer] Hydraulic - Flanking

Hydraulic System

R&O OIL ISO 32 (150 GAL)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

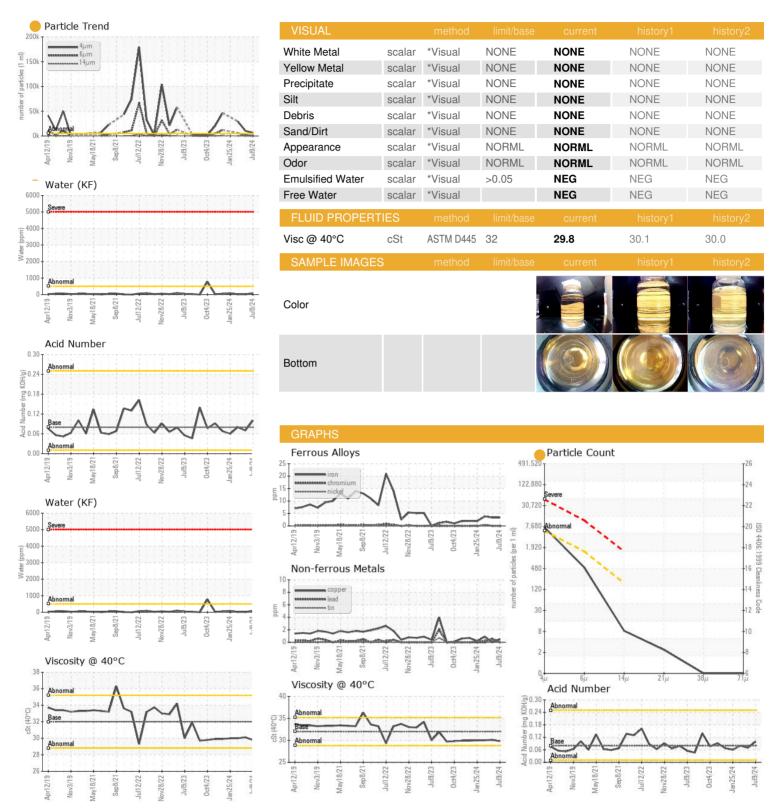
Fluid Condition

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

		or2019 Nov201	9 May2021 Sep2021 Jul20	022 Nov2022 Jul2023 Oct2023 J:	an 2024 Jul202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845823	WC0719258	WC0719262
Sample Date		Client Info		09 Jul 2024	14 May 2024	14 Apr 2024
Machine Age	hrs	Client Info		0	6595	6050
Oil Age	hrs	Client Info		0	6595	6050
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	3	4
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
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	0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	0	0	<1
Calcium	ppm	ASTM D5185m	5	9	8	7
Phosphorus	ppm	ASTM D5185m	100	82	75	65
Zinc	ppm	ASTM D5185m	25	78	79	85
Sulfur	ppm	ASTM D5185m	1500	264	246	177
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>0.05	0.007	0.001	0.002
ppm Water	ppm	ASTM D6304	>500	80	15	19
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6364	▲ 10367	29446
Particles >6µm		ASTM D7647	>1300	453	1593	▲ 5840
Particles >14µm		ASTM D7647	>160	7	89	△ 312
Particles >21µm		ASTM D7647	>40	2	22	<u></u> 75
Particles >38µm		ASTM D7647	>10	0	1	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/10	<u>\$\rightarrow\$ 21/18/14</u>	<u>△</u> 22/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.10	0.07	0.08



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Certificate 12367

Laboratory Sample No.

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

: WC0845823 : 06239144

Unique Number : 11127978

Diagnosed Test Package : IND 2 (Additional Tests: KF)

Received

Tested

: 17 Jul 2024

: 18 Jul 2024

: 19 Jul 2024 - Don Baldridge

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

MARATHON PETROLEUM CO.

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Report Id: MARCAT [WUSCAR] 06239144 (Generated: 07/19/2024 11:59:27) Rev: 1

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