

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

Area

# Speedway [Speedway] Hydraulic - Flanking

Hydraulic System

Fluid

**R&O OIL ISO 32 (75 GAL)** 

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Hours of steering oil holding tank unknown)

#### Wear

All component wear rates are normal.

## Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## **Fluid Condition**

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

		Jul2021 Aug 2	1021 Des2021 Feb2022 Jul2	022 Mar2023 Jul2023 Feb2024 Apr	2024 Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874686	WC0860106	WC0860049
Sample Date		Client Info		08 Jul 2024	05 Apr 2024	21 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	18	19	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	0
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	14	13	11
Tin	ppm	ASTM D5185m	>20	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	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		ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m	5	0	<1	<1
Magnesium	ppm	ASTM D5185m	5	0	<1	1
Calcium		ASTM D5185m	5	0	13	18
Phosphorus	ppm	ASTM D5185m	100	51	57	59
Zinc	ppm	ASTM D5185m	25	33	59	52
Sulfur	ppm	ASTM D5185m	1500	387	348	366
CONTAMINANTS		method	limit/base		history1	history2
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Silicon	ppm	ASTM D5185m	>15	1	2	<1
Sodium	ppm	ASTM D5185m		4	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.05	0.004	0.002	0.003
ppm Water	ppm	ASTM D6304	>500	43	24	27
FLUID CLEANLIN	IESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>5000	1157	746	597
Particles >6µm		ASTM D7647	>1300	367	84	74
Particles >14μm		ASTM D7647	>160	40	6	4
Particles >21μm		ASTM D7647	>40	15	1	1
Particles >38μm		ASTM D7647	>10	2	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/12	17/14/10	16/13/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.06	0.09	0.10



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Laboratory Sample No.

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

: WC0874686 : 06235948 Unique Number : 11124782

**Tested** Diagnosed

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.

: 16 Jul 2024 - Don Baldridge

US 41169 Contact: CORY GUMBERT cagumbert@marathonpetroleum.com T: (606)585-3950

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

Received

: 15 Jul 2024

: 16 Jul 2024

MARATHON PETROLEUM CO.

F: x:

101 12TH ST

CATLETTSBURG, KY