

OIL ANALYSIS REPORT

Area Nashville [Nashville] Hydraulic - Flanking

Hydraulic System

AW HYDRAULIC OIL ISO 32 (110 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Dparnell) $\label{eq:comment}$

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method Initicase current history1 history2 Sample Number Client Info WC0874892 WC0805244 WC0769191 Sample Date Client Info 0 117 0 Oil Age hrs Client Info 2724 117 11272 Oil Changed Client Info 2724 117 11272 Oil Changed Client Info 2724 117 11272 Sample Status Term Not Changed Filtered Not Changed Filtered Sample Status method Imit/base current Not Changed Filtory2 Iron ppm ASTM D5185m >20 4 3 11 Chromium ppm ASTM D5185m >20 2 0 0 Status 20 21 0 0 0 0 Status 20 2 3 4 1 1 1 1 Chromium ppm			Dec2020	Jul2021 Jul2022	Oct2022 Jul2023 Nov2023	Apr2024	
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Oil Cleanliness ISO 4406 (c) >19/17/14 19/15/11 21/18/13 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>10	1	1	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/11	▲ 21/18/13	▲ 21/19/14
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.064 0.15 0.25	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.064	0.15	0.25

Sample Rating Trend

ADDITIVES



350

300

250

la 200 150

100

50

600

500

400

1000

25

Ê 20

101 particles (

Ok

600

500

1) 3000 Alter 2000 3000

> 100 Ab

> > 40

38

36

3

2

Abno 28

lec29/70

cSt (40°C)

Dec29/

Water (KF)

ul11/22

Jul11/22

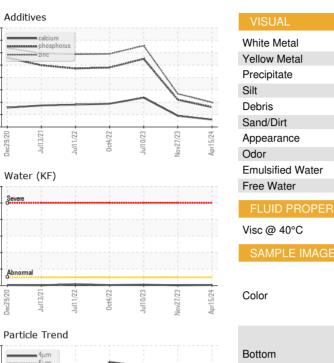
Jul11/22

Viscosity @ 40°C

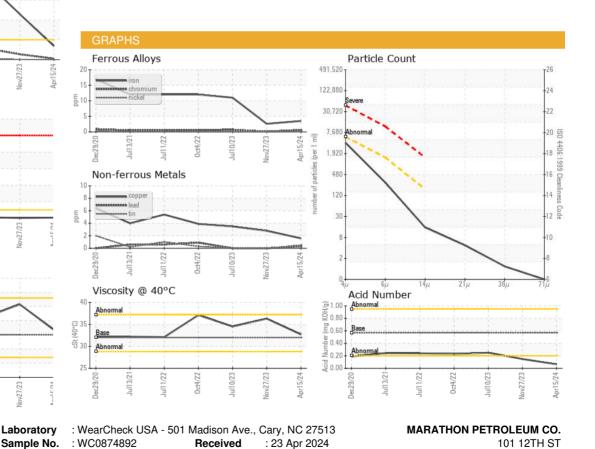
44/77

C-44.17

OIL ANALYSIS REPORT









Sample No. Lab Number Tested : 06157683 : 24 Apr 2024 Unique Number : 10993106 Diagnosed : 25 Apr 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: KF) Contact: CORY GUMBERT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cagumbert@marathonpetroleum.com * - 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)

Report Id: MARCAT [WUSCAR] 06157683 (Generated: 04/25/2024 15:26:59) Rev: 1

Nov27/23

Submitted By: M/V NASHVILLE

CATLETTSBURG, KY

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