

OIL ANALYSIS REPORT

Kentucky [Kentucky] Oil - Port Reduction Gear

Port Reduction Gear

SAE 30W (26 GAL)

Sample Rating Trend



Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Chris wray)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

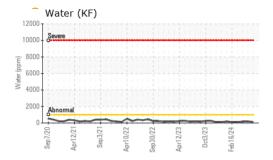
Fluid Condition

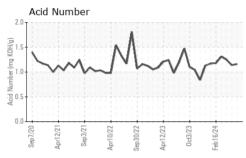
The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

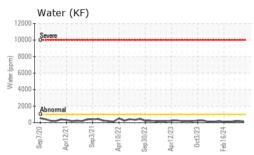
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898647	WC0898540	WC0845807
Sample Date		Client Info		09 Jul 2024	25 May 2024	25 Apr 2024
Machine Age	hrs	Client Info		15731	14978	14450
Oil Age	hrs	Client Info		748	1689	1161
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	3	5	4
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>25	0	2	1
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>50	2	5	4
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		63	70	56
Barium	ppm	ASTM D5185m		0	<1	2
Molybdenum	ppm	ASTM D5185m		20	23	22
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		325	357	330
Calcium	ppm	ASTM D5185m		630	712	681
Phosphorus	ppm	ASTM D5185m		883	839	780
Zinc	ppm	ASTM D5185m		559	597	539
Sulfur	nnm	AOTAL DELOE				8833
Sullul	ppm	ASTM D5185m		12139	10204	0033
CONTAMINANTS		method	limit/base	12139 current	10204 history1	history2
			limit/base >50		history1	
CONTAMINANTS		method		current	history1	history2
CONTAMINANTS Silicon	ppm	method ASTM D5185m		current	history1 2 0 2	history2
CONTAMINANTS Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	>50 >20	current 1 2	history1 2 0	history2 4 <1
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	current 1 2 1	history1 2 0 2	history2 4 <1 1
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.1	current 1 2 1 0.012	history1 2 0 2 0.020	history2 4 <1 1 0.017



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2

		00.0	 	
SAMPLE IMAGES	method		history1	history2

150

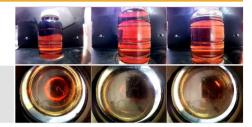
ASTM D445 95.0

Color

Vice @ 40°C



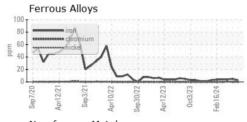
cSt

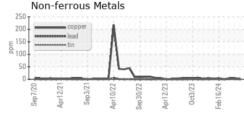


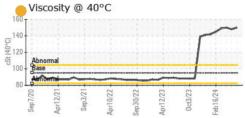
1/18

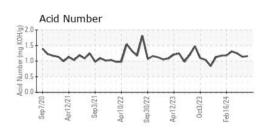
150

GRAPHS













Certificate 12367

Laboratory Sample No.

: WC0898647 Lab Number : 06236092 Unique Number : 11124926

Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 15 Jul 2024 : 16 Jul 2024 Diagnosed

: 17 Jul 2024 - Don Baldridge

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

* - 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.

F: x:

101 12TH ST

CATLETTSBURG, KY