

OIL ANALYSIS REPORT

Acid Number (AN)

mg KOH/g ASTM D8045

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. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Tyson Bias

Wear

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 INFORMA	NOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0860056	WC0859846	WC0845733
Sample Date		Client Info		16 Mar 2024	16 Feb 2024	20 Jan 2024
Machine Age	hrs	Client Info		13560	12942	12458
Oil Age	hrs	Client Info		271	1653	1168
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron p	ppm	ASTM D5185m	>150	4	4	3
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel p	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	<1
Lead p	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>50	1	4	3
Tin p	ppm	ASTM D5185m	>10	0	0	<1
Vanadium p	ppm	ASTM D5185m		0	0	0
Cadmium p	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	ppm	ASTM D5185m		63	54	53
Barium p	ppm	ASTM D5185m		0	0	0
Molybdenum p	ppm	ASTM D5185m		22	22	24
Manganese p	ppm	ASTM D5185m		0	0	0
Magnesium p	ppm	ASTM D5185m		344	343	377
Calcium	ppm	ASTM D5185m		673	676	714
Phosphorus	ppm	ASTM D5185m		873	819	889
Zinc	ppm	ASTM D5185m		580	564	642
Sulfur p	ppm	ASTM D5185m		10836	8892	9830
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>50	1	1	2
Sodium p	ppm	ASTM D5185m		<1	1	<1
	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>0.1	0.012	0.010	0.020
ppm Water	ppm	ASTM D6304	>1000	122	100	208
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
A	1/011/	AOTA B00 (-				

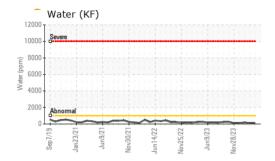
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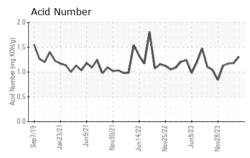
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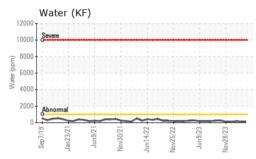
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	TIES	method	limit/base	current	historv1	historv2

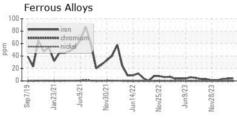
T LOID I HOI LITT	ILO					
Visc @ 40°C	cSt	ASTM D445	95.0	149	145	142

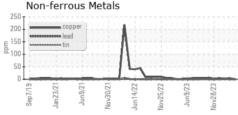
SAMPLE IMAGES

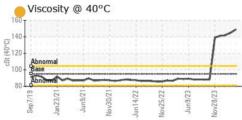
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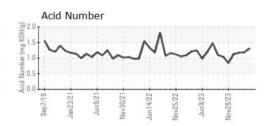
Color

GRAPHS













Laboratory Sample No. Lab Number : 06130736 Unique Number : 10950201

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0860056

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

Received : 27 Mar 2024 **Tested** Diagnosed Test Package : IND 2 (Additional Tests: KF)

: 28 Mar 2024 : 30 Mar 2024 - Don Baldridge

101 12TH ST CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com

MARATHON PETROLEUM CO.

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)

F: x: