

OIL ANALYSIS REPORT

Area Speedway [Speedway] Oil - Port Reduction Gear

Component
Port Reduction Gear

SAE 30W (85 GAL)

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Sample Rating Trend



Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Jd Ridout)

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

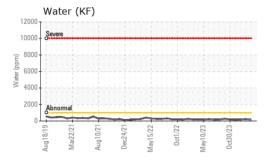
Fluid Condition

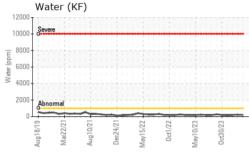
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

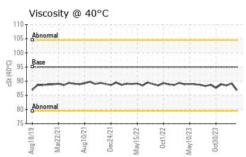
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845771	WC0845774	WC0845775
Sample Date		Client Info		21 Feb 2024	23 Jan 2024	26 Dec 2023
Machine Age	hrs	Client Info		39354	38814	38424
Oil Age	hrs	Client Info		76802	16462	16072
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	16	31	31
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	1
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>50	7	11	13
Tin	ppm	ASTM D5185m	>10	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	39	40
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		31	23	23
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		480	335	323
Calcium	ppm	ASTM D5185m		1408	1831	1890
Phosphorus	ppm	ASTM D5185m		763	854	825
				700	001	
Zinc	ppm	ASTM D5185m		848	935	914
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m				914 7546
-	ppm		limit/base	848	935	
Sulfur	ppm	ASTM D5185m	limit/base	848 4393	935 6772	7546
Sulfur CONTAMINANTS	ppm	ASTM D5185m method		848 4393 current	935 6772 history1	7546 history2
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method ASTM D5185m		848 4393 current	935 6772 history1	7546 history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>50 >20	848 4393 current 3 2	935 6772 history1 5	7546 history2 5 0
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	848 4393 current 3 2	935 6772 history1 5 2	7546 history2 5 0 <1
Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.1	848 4393 current 3 2 0 0.015	935 6772 history1 5 2 1 0.022	7546 history2 5 0 <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	LIGHT	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

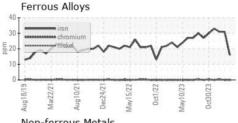
FLUID FROFER	THES	method			HISTORY	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	95.0	86.8	89.2	88.5

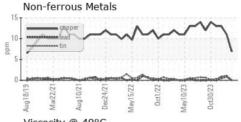
SAMPLE IMAGES	method		history2

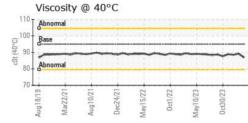
Color

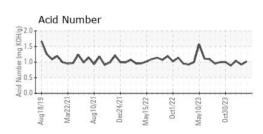
















Laboratory Sample No. Lab Number : 06101737 Unique Number : 10899967

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

: WC0845771

Received **Tested** Diagnosed

Test Package : IND 2 (Additional Tests: KF)

: 28 Feb 2024 : 29 Feb 2024 - Don Baldridge

: 27 Feb 2024

MARATHON PETROLEUM CO. 101 12TH ST

CATLETTSBURG, KY US 41169

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com

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

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