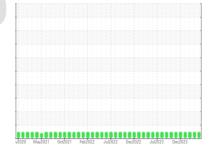


OIL ANALYSIS REPORT

Speedway [Speedway] Oil - Port Reduction Gear

Port Reduction Gear SAE 30W (85 GAL)



Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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		WC0860103	WC0860043	WC0845771
Sample Date		Client Info		10 Apr 2024	20 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		40020	39732	39354
Oil Age	hrs	Client Info		17493	17180	76802
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	36	34	16
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	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	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	11	10	7
Tin	ppm	ASTM D5185m	>10	1	1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		44	40	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		23	23	31
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		336	348	480
Calcium	ppm	ASTM D5185m		1932	2029	1408
Phosphorus	ppm	ASTM D5185m		843	857	763
Zinc	ppm	ASTM D5185m		893	929	848
Sulfur	ppm	ASTM D5185m		7721	7521	4393
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	5	3
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.1	0.017	0.031	0.015
ppm Water	ppm	ASTM D6304	>1000	178	317	158
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

0.99

Acid Number (AN)

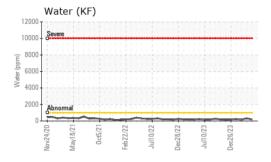
mg KOH/g ASTM D8045

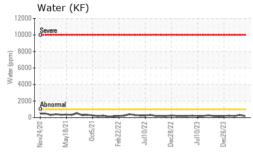
0.884

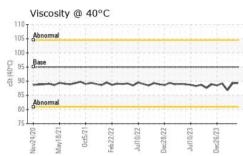
1.02



OIL ANALYSIS REPORT







VISUAL		method				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 PROPER	THES	method	ilmit/base		nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	95.0	89.3	89.3	86.8

SAMPLE IMAGES

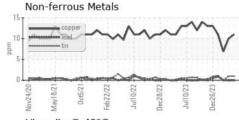
Color

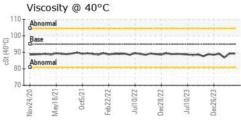
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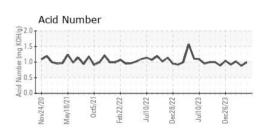


GRAPHS

Ferrous Alloys











Certificate 12367

Laboratory Sample No.

Lab Number : 06157771

: WC0860103 Unique Number : 10993194

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**

: 23 Apr 2024 : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis

101 12TH ST CATLETTSBURG, KY US 41169

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

MARATHON PETROLEUM CO.

* - 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] 06157771 (Generated: 04/24/2024 12:34:29) Rev: 1

F: x: