

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
4E-67B
Component
Gearbox

HIGH PERFORMANCE LUBRICANTS GEAR LIFE 150 (--- GAL)

### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

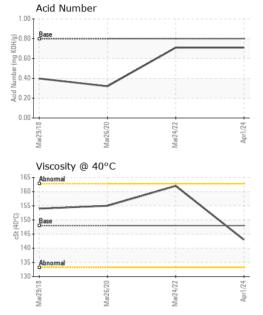
# **Fluid Condition**

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		HPL0005080	HPL0000507	HPL010613
Sample Date		Client Info		01 Apr 2024	24 Mar 2022	26 Mar 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	34	94	8
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	2	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	11	<1
Lead	ppm	ASTM D5185m	>100	<1	2	4
Copper	ppm	ASTM D5185m	>200	0	10	2
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			179
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	13	16
Phosphorus	ppm	ASTM D5185m		178	183	108
Zinc	ppm	ASTM D5185m		6	10	<1
Sulfur	ppm	ASTM D5185m		27520	17489	10658
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	41	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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Laboratory Sample No.

Lab Number : 06139334

: HPL0005080 Unique Number : 10964142

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

: 04 Apr 2024 : 05 Apr 2024 Diagnosed : 05 Apr 2024 - Wes Davis

MARATHON PETROLEUM CO. IL. REFININF DIVISION, 400 S MARATHON AVE

ROBINSON, IL US 62454 Contact: M.S. MANHART

Test Package : MOB 2 Certificate 12367

mmanhart@marathonpetroleum.com T: (618)544-2121

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)

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