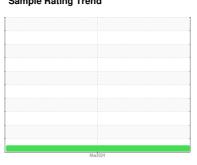


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



71E-21A

Component Gearbox

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

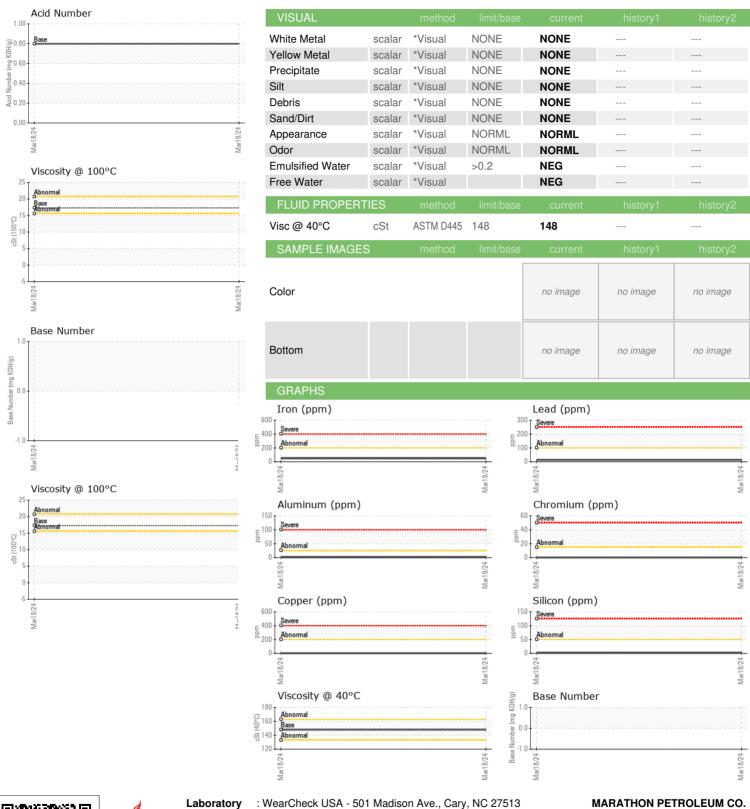
Fluid Condition

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

R LIFE 150 (G	AL)			Mar2024		
SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0004548		
Sample Date		Client Info		18 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	48		
Chromium	ppm	ASTM D5185m	>15	0		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>100	13		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>25	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		3		
Phosphorus	ppm	ASTM D5185m		252		
Zinc	ppm	ASTM D5185m		38		
Sulfur	ppm	ASTM D5185m		23259		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.8	0.80		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number : 06125804

: HPL0004548

Received **Tested** Unique Number: 10939955

: 21 Mar 2024 : 25 Mar 2024 Diagnosed

: 25 Mar 2024 - Angela Borella Test Package: MOB 2 (Additional Tests: FT-IR, KV100, TBN)

IL. REFININF DIVISION, 400 S MARATHON AVE ROBINSON, IL US 62454

Contact: M.S. MANHART mmanhart@marathonpetroleum.com

* - 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)

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

T: (618)544-2121 F: x: