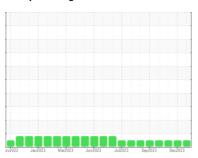


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 16K-3A Component

Compressor

HPL R&O ISO 100 (--- 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.

		ov2022 Ja	n2023 Mar2023 Ju	n2023 Jul2023 Sep2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0004152	HPL0002576	HPL0002596
Sample Date		Client Info		11 Jan 2024	24 Dec 2023	15 Nov 2023
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	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	36	31	30
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	26	19	20
Tin	ppm	ASTM D5185m	>15	18	15	15
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m		4	4	5
Phosphorus	ppm	ASTM D5185m		214	186	188
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		16286	15256	15691
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	8
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.57	0.56



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06065093 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HPL0004152 Recieved : 18 Jan 2024 Diagnosed : 24 Jan 2024

: 10836475 Diagnostician : Doug Bogart

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.

MARATHON PETROLEUM CO.

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

US 62454

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

T: (618)544-2121

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)