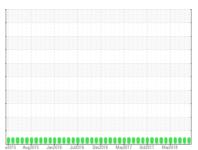


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **69K-2A (S/N X22XG503)**

Component

Compressor Fluid

R&O OIL ISO 100 (35 GAL)

D 1 /	101	100	0
- 1114	71-17	NOS	-
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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.

x2015 Aug2015 Jam2016 Ju02016 Dec2016 Mmy2017 Ox2017 Mac2018								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		HPL0003207	HPL0003230	HPL0003413		
Sample Date		Client Info		15 Aug 2023	13 Jul 2023	15 Jun 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		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	5	6	5		
Chromium	ppm	ASTM D5185m	>10	0	0	0		
Nickel	ppm	ASTM D5185m		0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>25	7	7	<1		
Lead	ppm	ASTM D5185m	>25	0	<1	0		
Copper	ppm	ASTM D5185m	>50	<1	1	1		
Tin	ppm	ASTM D5185m	>15	3	4	2		
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	5	0	0	0		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	5	0	0	0		
Manganese	ppm	ASTM D5185m		0	0	0		
Magnesium	ppm	ASTM D5185m	5	<1	<1	<1		
Calcium	ppm	ASTM D5185m	5	3	5	5		
Phosphorus	ppm	ASTM D5185m	100	153	173	175		
Zinc	ppm	ASTM D5185m	25	0	5	4		
Sulfur	ppm	ASTM D5185m	1500	17871	17946	18481		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	nnm	ASTM D5185m	>25	2	3	3		
Sodium	ppm	ASTM D5185m	>23	<1	0	0		
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1		
FLUID DEGRADA Acid Number (AN)	mg KOH/g	method ASTM D8045	limit/base 0.08	current 0.45	history1 0.44	history2 0.45		
VISUAL	ing Norty	method	limit/base	current		history2		
	0001="				history1			
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		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: HPL0003207 : 05930476 : 10615747 Test Package : MOB 2

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.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed Diagnostician : Doug Bogart

: 23 Aug 2023

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

Contact/Location: M.S. MANHART - MARROB

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

F: x: