

## Machine Id **16K-3B** Component **Compressor** Fluid HP R&O ISO 100 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the	Sample Num
next service interval to monitor.	Sample Dat
	Machine Ag
	Oil Age
	Filter Age
	Oil Changeo
	Filter Chang
	Sample Sta
WEAR	Iron
The iron level is abnormal. All other component wear rates are normal.	Chromium
	Nickel
	Titanium
	Silver
	Aluminum
	Lead

## 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 acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0005078	HPL0004529	HPL0004469
Sample Date		Client Info		15 Apr 2024	13 Mar 2024	15 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	<b>A</b> 84	<b>▲</b> 71	<u>∧</u> 87
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
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	0	1	2
Lead	ppm	ASTM D5185m	>25	2	2	<1
Copper	ppm	ASTM D5185m	>50	36	29	26
Tin	ppm	ASTM D5185m	>15	19	19	20
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	1	2	2
Potassium	ppm	ASTM D5185m	>20	י <1	- 1	<1
Water	ррпі	WC Method	>0.1	NEG	NEG	NEG
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
Sodium	ppm	ASTM D5185m		1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		1	<1	0
Calcium	ppm	ASTM D5185m		4	1	1
Phosphorus	ppm	ASTM D5185m		194	187	196
Zinc	ppm	ASTM D5185m		24	16	15
Sulfur	ppm	ASTM D5185m		17393	17710	15188
Acid Number (AN)	mg KOH/g	ASTM D8045		0.55	0.64	0.54
Visc @ 40°C	cSt	ASTM D445		101	101	101

WEAR

CONTAMINATION

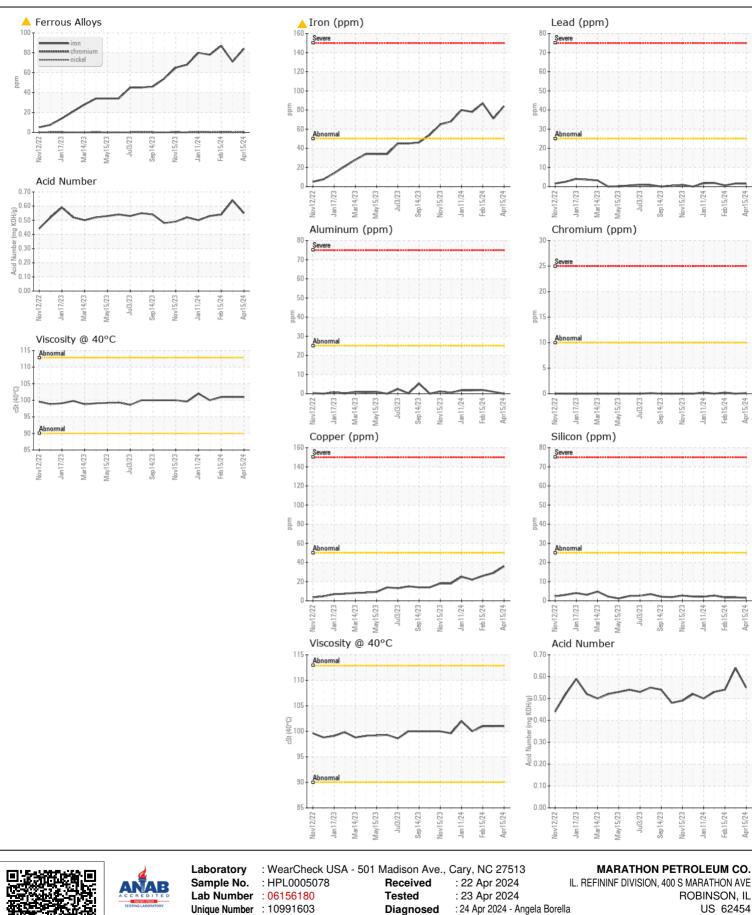
**FLUID CONDITION** 

**ABNORMAL** 

NORMAL

NORMAL

Contact/Location: M.S. MANHART - MARROB



Test Package : MOB 2 Contact: M.S. MANHART Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. 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)

Contact/Location: M.S. MANHART - MARROB Page 2 of 2

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Apr15/24 .

Feb15/24

T: (618)544-2121

F: x:

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