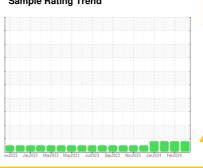


OIL ANALYSIS REPORT

Sample Rating Trend

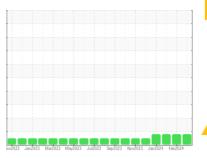




Machine Id 16K-3B Component

Compressor

HP R&O ISO 100 (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

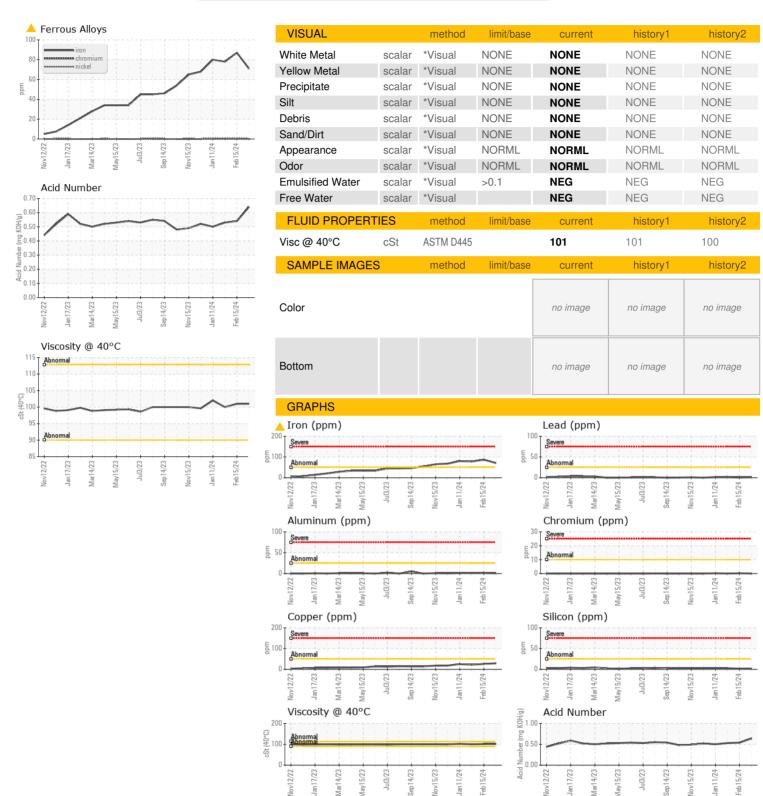
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
		Client Info	minu bass	HPL0004529	HPL0004469	HPL0004159
Sample Number Sample Date		Client Info		13 Mar 2024	15 Feb 2024	25 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	N/A	N/A
Sample Status		Ciletit IIIIO		ABNORMAL	ABNORMAL	ABNORMAL
				-		
CONTAMINATION	V	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	<u>▲</u> 71	▲ 87	▲ 78
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	2
Lead	ppm	ASTM D5185m	>25	2	<1	2
Copper	ppm	ASTM D5185m	>50	29	26	22
Tin	ppm	ASTM D5185m	>15	19	20	21
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m		1	1	4
Phosphorus	ppm	ASTM D5185m		187	196	189
Zinc	ppm	ASTM D5185m		16	15	8
Sulfur	ppm	ASTM D5185m		17710	15188	14535
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	3
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.64	0.54	0.53



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

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

: 06121713

Lab Number Unique Number: 10930546 Test Package : MOB 2

: HPL0004529 Received : 18 Mar 2024 **Tested** Diagnosed

: 19 Mar 2024 : 21 Mar 2024 - Jonathan Hester

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

ROBINSON, IL US 62454

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

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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