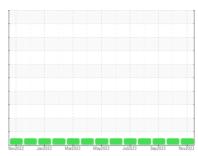


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 16K-3B Component

Compressor

HP 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.

		Nov2022	Jan 2023 Mar 2023	May2023 Jul2023 Sep2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0002597	HPL0002584	HPL0003079
Sample Date		Client Info		15 Nov 2023	16 Oct 2023	14 Sep 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	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	65	54	46
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	5
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	18	14	14
Tin	ppm	ASTM D5185m	>15	19	19	17
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		1	1	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		4	0	2
Phosphorus	ppm	ASTM D5185m		195	177	171
Zinc	ppm	ASTM D5185m		4	18	8
Sulfur	ppm	ASTM D5185m		14770	13970	17284
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	2
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	1/01/	10T11 D00:-				

0.49

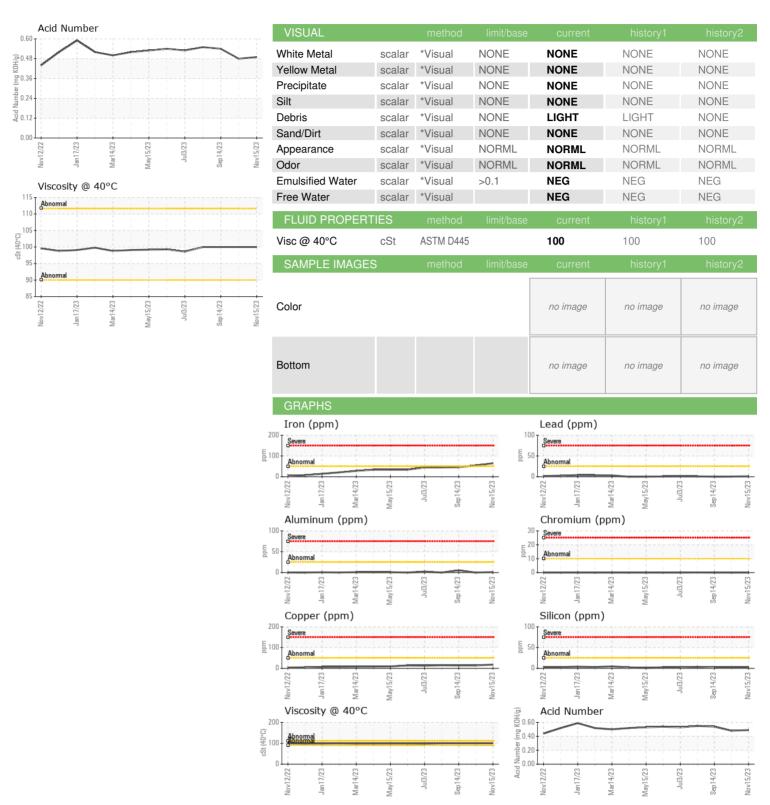
Acid Number (AN) mg KOH/g ASTM D8045

0.48

0.54



OIL ANALYSIS REPORT







Certificate L2367

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

: 10755766 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HPL0002597 Received Diagnosed : 06016622

Diagnostician

: 24 Nov 2023 : 28 Nov 2023 : Jonathan Hester 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 F: x:

* - 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.