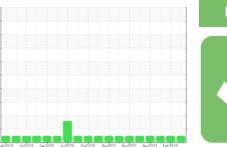


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# C-172801 (S/N 45548) Component Compressor

**ROYAL PURPLE SYNFILM GT 100 (25 GAL** 

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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 oil. The amount and size of particulates present in the system are acceptable.

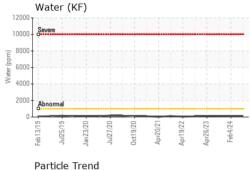
## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

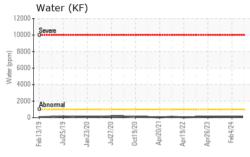
-)		eb2019 Jul20	19 Jan 2020 Jul 2020 Oc	2020 Apr2021 Apr2022 Apr2023	Feb 2024	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035217	RP0039411	RP0038315
Sample Date		Client Info		26 Mar 2024	04 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	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	1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
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		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	90	83	90
Calcium	ppm	ASTM D5185m		5	2	2
Phosphorus	ppm	ASTM D5185m	35	0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	<1
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	4	2	2
Water	%	ASTM D6304	>0.1	0.01	0.007	0.009
ppm Water	ppm	ASTM D6304	>1000	100	80	98.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	868	849	1515
Particles >6µm		ASTM D7647	>2500	216	160	165
Particles >14µm		ASTM D7647	>320	13	12	4
Particles >21µm		ASTM D7647	>80	2	4	1
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	17/14/11	18/15/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.388	0.46	0.29	0.32

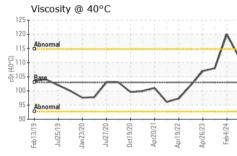


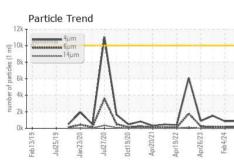
## **OIL ANALYSIS REPORT**

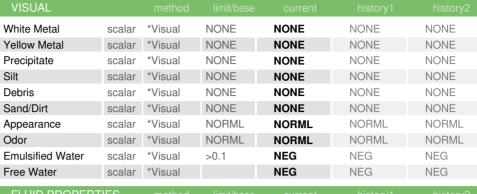


10k - 201	10 mtai 6	μm μm	1					-
8k -		4μm	-/1			-		
6k -			11				Α	
8k - 6k - 4k - 2k - 2k - 2k - 4k - 2k - 4k - 2k - 4k - 4			1.1		-	-/	1	
2k -			IA			1	1	
0k				1	-	_/	1	$\sim$
Feb13/19	Jul25/19	Jan 23/20	0	0ct19/20	Apr20/21	Apr19/22	Apr26/23	Feb4/24



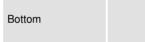






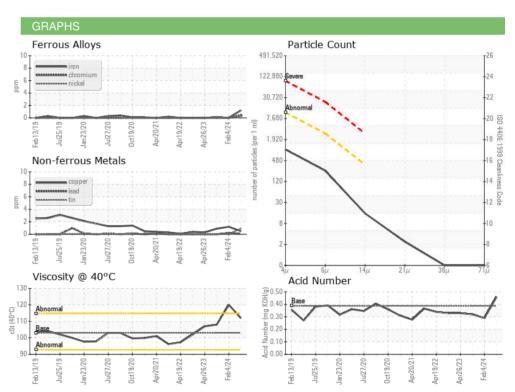
FLUID PROPER	IIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	103	112	120	108

AMPLE IMAGES	SAM	PLE IMA	GES
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Color









Certificate 12367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0035217

Received Lab Number : 06138054 **Tested** Unique Number : 10962862

: 03 Apr 2024 : 04 Apr 2024 Diagnosed : 05 Apr 2024 - Don Baldridge

Test Package : IND 2 ( Additional Tests: PrtCount ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

**CALUMET MONTANA REFINERY** 

1807 3RD ST NW GREAT FALLS, MT US 59404

Contact: CODY MCRADY brian.schoechert@clmt.com

T: (406)454-9854 F:

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