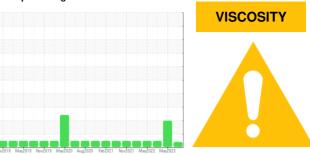


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

C-414702-B

Compressor

ROYAL PURPLE SYNFILM GT 100 (100 GA

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

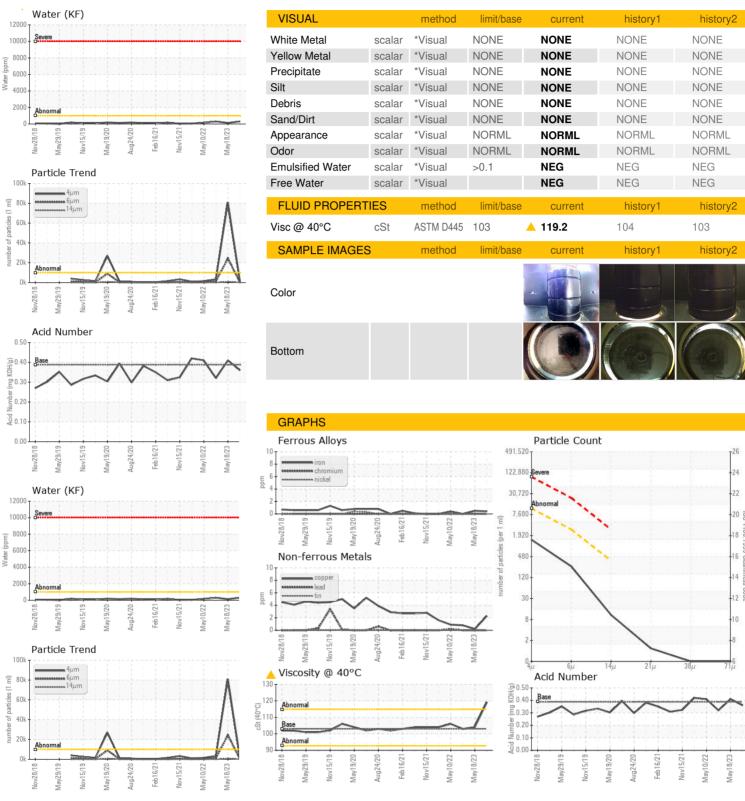
Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

L)		lov2018 May20	119 Nov2019 May2020 Au	g2020 Feb2021 Nov2021 May2022	May/2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035223	RP0033763	RP0024397
Sample Date		Client Info		04 Jun 2024	18 May 2023	16 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Filtered	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
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	0	<1	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	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		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	82	95	84
Calcium	ppm	ASTM D5185m		1	4	2
Phosphorus	ppm	ASTM D5185m	35	15	4	0
Zinc	ppm	ASTM D5185m		2	0	1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.029	0.013	0.029
ppm Water	ppm	ASTM D6304	>1000	298	137.9	297.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1275	<u>▲</u> 81052	3292
Particles >6µm		ASTM D7647	>2500	220	<u>^</u> 24277	1092
Particles >14µm		ASTM D7647	>320	9	△ 904	58
Particles >21µm		ASTM D7647	>80	1	<u>▲</u> 185	4
Particles >38µm		ASTM D7647	>20	0	4	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/10	<u>4</u> 24/22/17	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.388	0.36	0.41	0.32



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06200251 Unique Number : 11062374

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0035223 Received : 05 Jun 2024

Tested : 13 Jun 2024 Diagnosed

: 13 Jun 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 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)

CALUMET MONTANA REFINERY

1807 3RD ST NW GREAT FALLS, MT US 59404

Contact: CODY MCRADY brian.schoechert@clmt.com T: (406)454-9854

F: