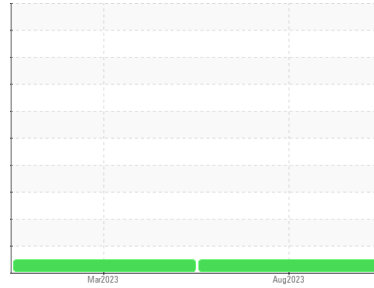




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
050-04 WC-04 (S/N 7142-0369)

Component
Hydraulic System

Fluid
CHEVRON RANDO HD 46 (53 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PH0001963	PH0000458	---
Sample Date	Client Info			04 Aug 2023	24 Mar 2023	---
Machine Age	hrs	Client Info		21935	19731	---
Oil Age	hrs	Client Info		21935	19731	---
Oil Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	4	---
Chromium	ppm	ASTM D5185m	>20	0	0	---
Nickel	ppm	ASTM D5185m	>20	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	<1	<1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>20	3	2	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

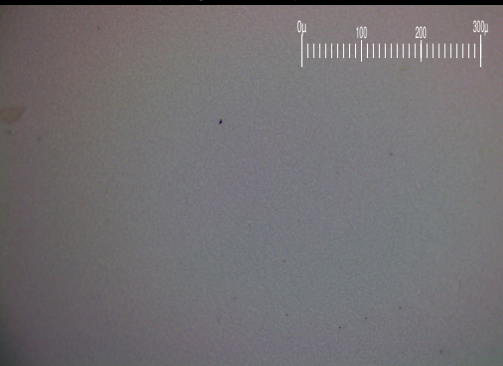
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		<1	<1	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		6	<1	---
Calcium	ppm	ASTM D5185m		40	47	---
Phosphorus	ppm	ASTM D5185m		308	375	---
Zinc	ppm	ASTM D5185m		366	436	---
Sulfur	ppm	ASTM D5185m		1338	1663	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	---
Sodium	ppm	ASTM D5185m		2	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	818	670	---
Particles >6µm		ASTM D7647	>640	212	174	---
Particles >14µm		ASTM D7647	>80	17	20	---
Particles >21µm		ASTM D7647	>20	4	5	---
Particles >38µm		ASTM D7647	>4	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>17/16/13	17/15/11	17/15/11	---

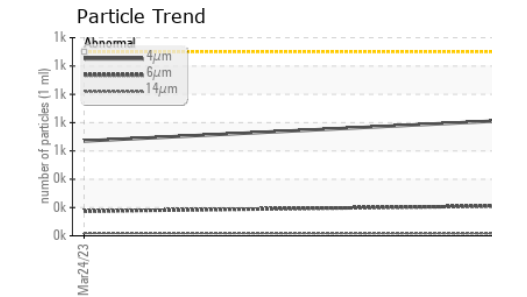
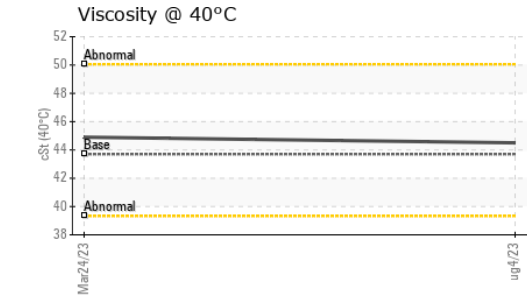
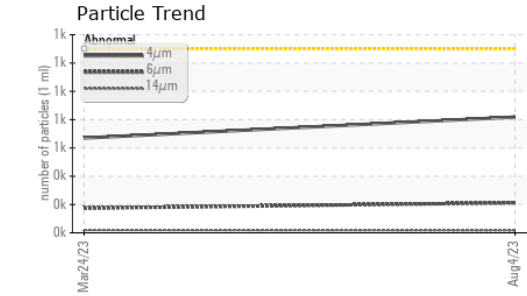
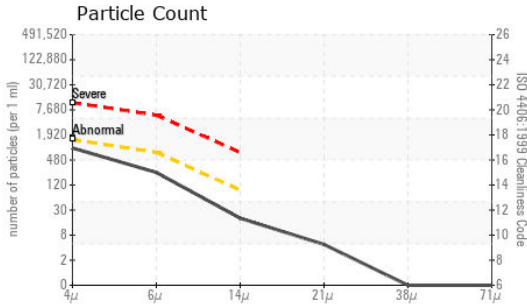
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.42	---

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



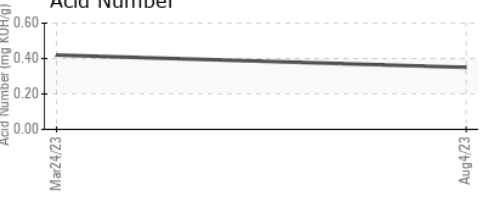
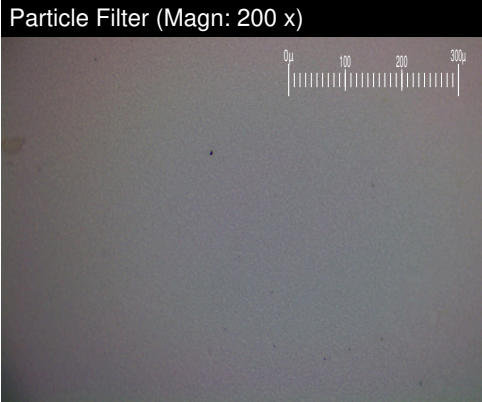
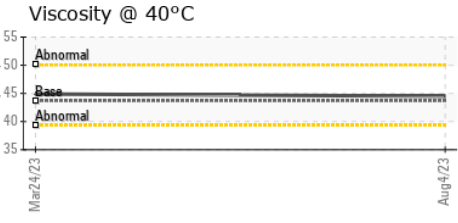
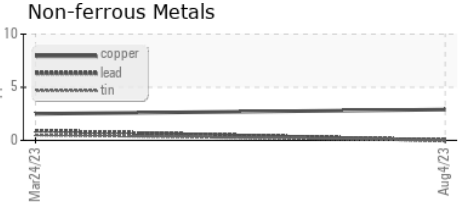
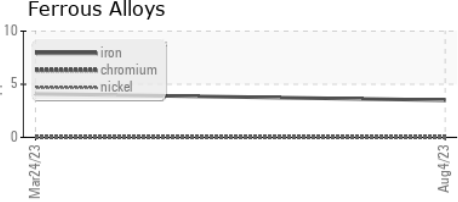
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	43.7	44.5	44.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image
Bottom			no image
PrtFilter			no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001963 **Received** : 14 Aug 2023
Lab Number : **05923413** **Diagnosed** : 15 Aug 2023
Unique Number : 10603360 **Diagnostician** : Angela Borella
Test Package : PLANT (Additional Tests: KF, PrtFilter)

SMC LTD
 3250 BRICKWAY BLVD
 SANTA ROSA, CA
 US 95403
 Contact: SUSAN BENNETT
 susan.bennett@smcltd.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)