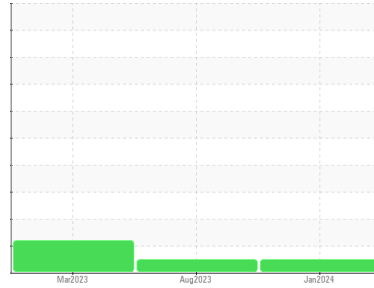




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
050-06 WC-09 (S/N 7142-0314)

Component
Hydraulic System

Fluid
CHEVRON RANDO HD 46 (53 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PH0002263	PH0001964	PH0000457
Sample Date	Client Info			05 Jan 2024	04 Aug 2023	15 Mar 2023
Machine Age	hrs	Client Info		0	216	10746
Oil Age	hrs	Client Info		2834	216	10746
Oil Changed	Client Info			Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	NEG	NEG	NEG

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

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		<1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	7	0
Calcium	ppm	ASTM D5185m		35	31	19
Phosphorus	ppm	ASTM D5185m		351	307	309
Zinc	ppm	ASTM D5185m		427	375	356
Sulfur	ppm	ASTM D5185m		748	751	843

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1626	2108	▲ 3955	
Particles >6µm	ASTM D7647	>640	405	585	▲ 1170	
Particles >14µm	ASTM D7647	>160	32	41	41	
Particles >21µm	ASTM D7647	>40	9	8	7	
Particles >38µm	ASTM D7647	>10	0	0	0	
Particles >71µm	ASTM D7647	>3	0	0	0	
Oil Cleanliness	ISO 4406 (c)	>18/16/14	18/16/12	18/16/13	▲ 19/17/13	

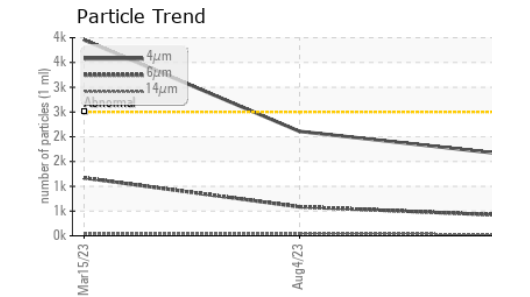
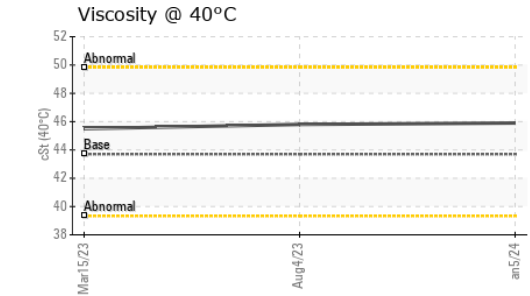
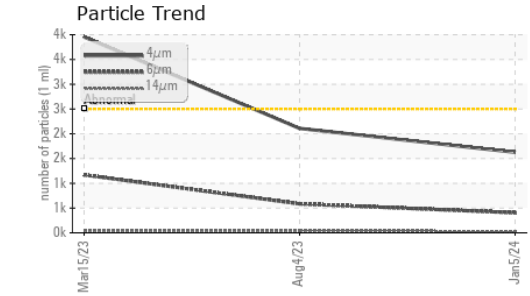
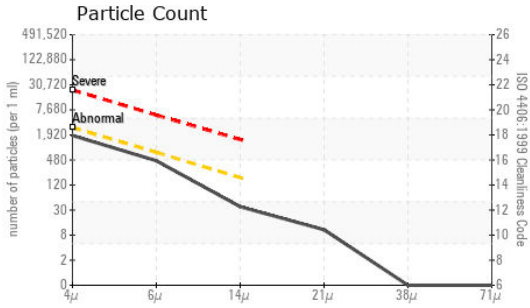
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.35	0.38

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0002263 **Received** : 17 Jan 2024
Lab Number : 06062642 **Diagnosed** : 23 Jan 2024
Unique Number : 10834024 **Diagnostician** : Doug Bogart
Test Package : PLANT (Additional Tests: PrtFilter)

SMC LTD
 3250 BRICKWAY BLVD
 SANTA ROSA, CA
 US 95403

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.

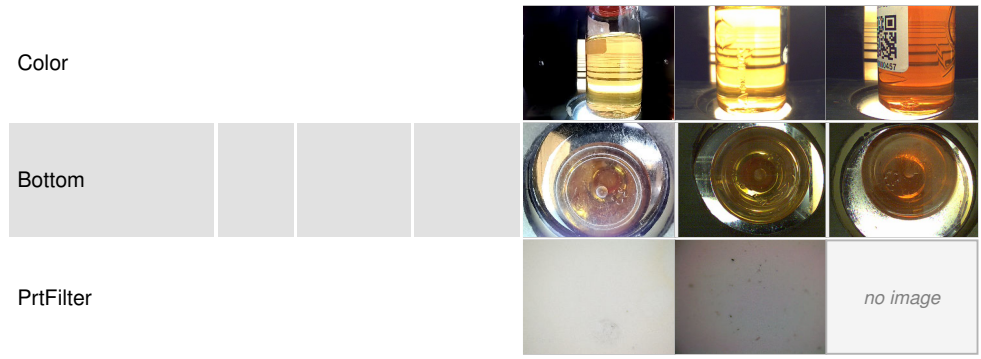
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact: SUSAN BENNETT
 susan.bennett@smcltd.com
 T:
 F:

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	43.7	45.9	45.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS

