



Machine Id
SIGNET VICTORY
Component
Port Steering
Fluid
CHEVRON GEAR COMPOUND EP 150 (30 GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0040270	MWM649676	MWM649698
Sample Date		Client Info		25 Jun 2024	29 Mar 2018	28 Dec 2017
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

An increase in the iron level is noted. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	22	<1	<1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	<1	0	0
Lead	ppm	ASTM D5185m	>10	<1	2	2
Copper	ppm	ASTM D5185m	>50	18	7	6
Tin	ppm	ASTM D5185m	>5	2	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Moderate concentration of visible dirt/debris present in the fluid.

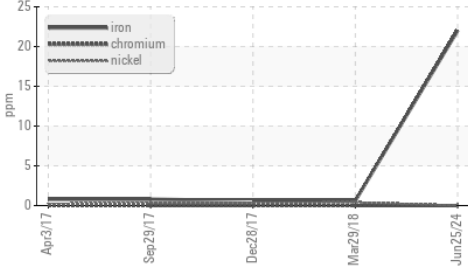
Silicon	ppm	ASTM D5185m	>15	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	1	4
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>2500	---	720	2082
Particles >6µm		ASTM D7647	>640	---	125	469
Particles >14µm		ASTM D7647	>80	---	15	33
Particles >21µm		ASTM D7647	>20	---	5	9
Particles >38µm		ASTM D7647	>4	---	0	2
Particles >71µm		ASTM D7647	>3	---	0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	17/14/11	18/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

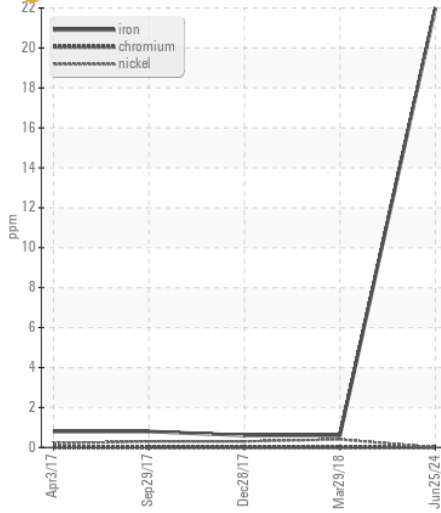
The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		20	2	<1
Boron	ppm	ASTM D5185m		8	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		6	12	11
Phosphorus	ppm	ASTM D5185m		220	315	329
Zinc	ppm	ASTM D5185m		27	362	368
Sulfur	ppm	ASTM D5185m		10687	1068	960
Acid Number (AN)	mg KOH/g	ASTM D8045		0.66	0.337	0.346
Visc @ 40°C	cSt	ASTM D445	142	147	45.9	46.1

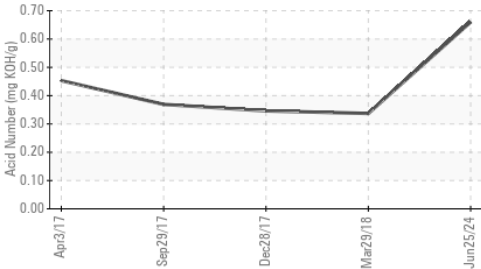
Ferrous Alloys



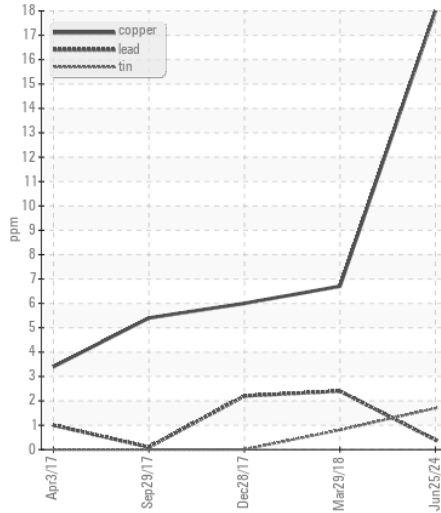
Ferrous Alloys



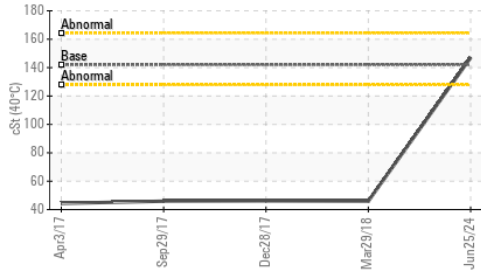
Acid Number



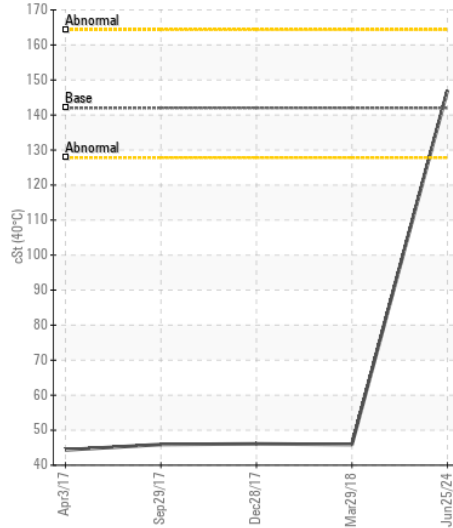
Non-ferrous Metals



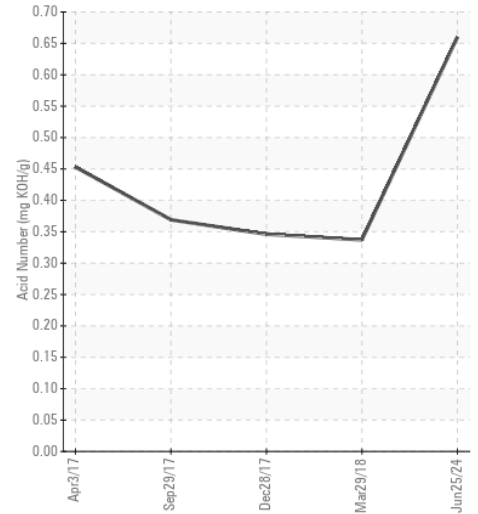
Viscosity @ 40°C



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0040270
Lab Number : 06224479
Unique Number : 11102676
Test Package : MAR 2 (Additional Tests: PrtCount)

Received : 01 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Angela Borella

MARITIME COMPANY
 3802 PORT RIVER RD
 PASCAGOULA, MS
 US 39567

Contact: TERRY SCUDDER
 terry.scudder@signetmaritime.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)

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