

OIL ANALYSIS REPORT

GENERAL DYNAMICS OTS Machine Id Q031: MSE FIN (S/N 14-092HN0NUBS-4) Component

Hydraulic System

PETRO CANADA HYDREX AW 46 (50 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

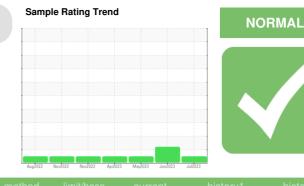
All component wear rates are normal.

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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0003987	SBP0003988	SBP0003990
Sample Date		Client Info		05 Jul 2023	02 Jun 2023	02 May 2023
Machine Age	mths	Client Info		50	50	50
Oil Age	mths	Client Info		1	50	1
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		11	8	8
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m		0	0	1
Copper	ppm	ASTM D5185m	>20	2	2	2
Tin	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m	/ _0	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ρριιι	method	limit/base	-	history1	history2
				current		
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	4	1
Calcium	ppm	ASTM D5185m	50	96	112	99
Phosphorus	ppm	ASTM D5185m	330	443	452	459
Zinc	ppm	ASTM D5185m	430	598	613	631
Sulfur	ppm	ASTM D5185m	760	3146	3497	2900
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	2
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m		0	<1	2
Water	%	ASTM D6304	>0.05	0.009	0.009	0.004
ppm Water	ppm	ASTM D6304	>500	93.0	91.7	49.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2108	▲ 8959	2462
Particles >6µm		ASTM D7647	>1300	667	<u> </u>	819
Particles >14µm		ASTM D7647	>160	73	149	44
Particles >21µm		ASTM D7647	>40	14	28	10
Particles >38µm		ASTM D7647	>10	1	6	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/13	▲ 20/18/14	18/17/13
FLUID DEGRADA		method	limit/base	current	history1	history2

Acid Number (AN) mg KOH

mg KOH/g ASTM D8045 0.70

0.45 0.54

Report Id: GENLIN [WUSCAR] 05901280 (Generated: 07/25/2023 09:29:25) Rev: 1

0.54 0.48 Submitted By: MIKE BROWN



ΡQ 250

200

150

100

50

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OIL ANALYSIS REPORT

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NONE

NONE

NONE

NONE

NONE

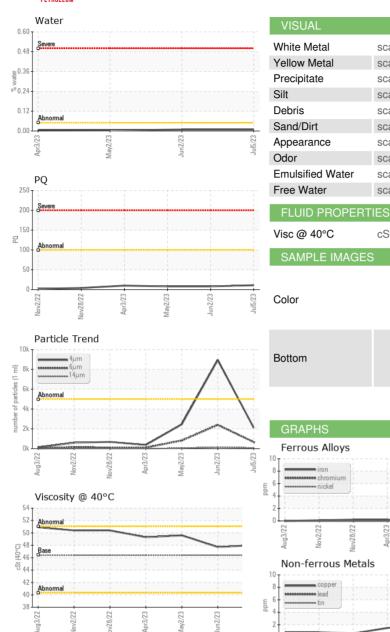
NONE

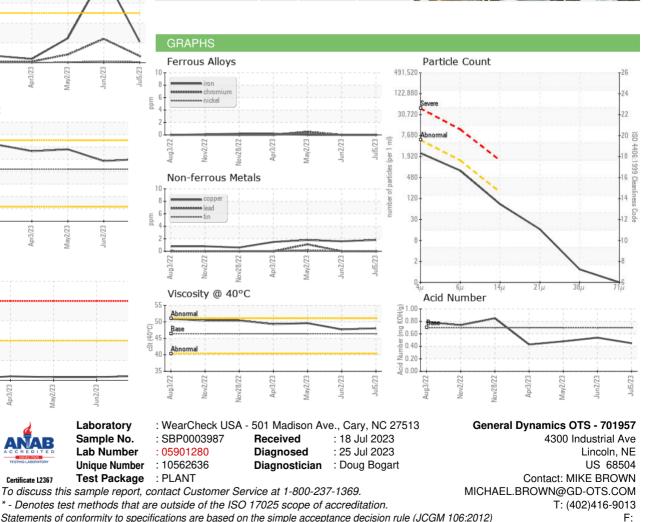
NORML

NORML

>0.05

46.4





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

48.03

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

47.7

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

49.61

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

Certificate L2367

CICINEV

un2/23

Laboratory

Sample No.

Submitted By: MIKE BROWN