

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

## **NORMAL**



# GENERAL DYNAMICS OTS Q030: MSE FIN (S/N 14-092HN0NWBS-4)

**Hydraulic System** 

PETRO CANADA HYDREX AW 46 (50 GAL)

### Recommendation

DIAGNOSIS

Resample at the next service interval to monitor.

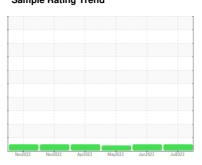
All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is 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		SBP0003986	SBP0003989	SBP0003991
Sample Date		Client Info		05 Jul 2023	02 Jun 2023	02 May 2023
Machine Age	mths	Client Info		60	60	30
Oil Age	mths	Client Info		1	60	30
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	15	11
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	>20	0	0	1
Copper	ppm	ASTM D5185m	>20	2	1	2
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	2	1
Calcium	ppm	ASTM D5185m	50	112	113	107
Phosphorus	ppm	ASTM D5185m	330	474	462	483
Zinc	ppm	ASTM D5185m	430	658	635	676
Sulfur	ppm	ASTM D5185m	760	3442	3329	3071
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water	%	ASTM D6304	>0.05	0.014	0.008	0.005
ppm Water	ppm	ASTM D6304	>500	142.0	89.1	55.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	895	1875	2718
Particles >6µm		ASTM D7647	>1300	259	586	693
Particles >14µm		ASTM D7647	>160	27	48	19
Particles >21µm		ASTM D7647	>40	8	11	4
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	18/16/13	19/17/11

Acid Number (AN)

FLUID DEGRADATION

mg KOH/g ASTM D8045 0.70

0.54

0.61



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Certificate L2367

Test Package

: PLANT

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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