

FLUID DEGRADATION

mg KOH/g ASTM D8045 0.26

Acid Number (AN)

Area HPP VESSEL 1 PUMP 2 (S/N B4405

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 4

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. 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.

4050)									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0929996	WC0802553	WC0916593			
Sample Date		Client Info		31 May 2024	02 May 2024	26 Mar 2024			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A NORMAL	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>20	0	0	0			
Chromium	ppm	ASTM D5185m	>20	0	<1	0			
Nickel	ppm	ASTM D5185m	>20	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver Aluminum	ppm	ASTM D5185m	. 00	0	0	0			
Lead	ppm	ASTM D5185m ASTM D5185m	>20 >20	0	0	0			
Copper	ppm ppm	ASTM D5185m	>20	0	0	0			
Tin	ppm	ASTM D5185m	>20	0	<1	0			
Vanadium	ppm	ASTM D5185m	~20	0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		0	0	0			
Barium	ppm	ASTM D5185m		<1	<1	0			
Molybdenum	ppm	ASTM D5185m		0	0	0			
Manganese	ppm	ASTM D5185m		<1	0	0			
Magnesium	ppm	ASTM D5185m		0	0	0			
Calcium	ppm	ASTM D5185m		<1	0	0			
Phosphorus	ppm	ASTM D5185m		467	467	457			
Zinc	ppm	ASTM D5185m		6	0	0			
Sulfur	ppm	ASTM D5185m		611	477	577			
CONTAMINANTS	6	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>15	3	2	2			
Sodium	ppm	ASTM D5185m		2	0	1			
Potassium	ppm	ASTM D5185m	>20	2	0	2			
Water	%	ASTM D6304	>0.05	0.016	0.003	0.002			
ppm Water	ppm	ASTM D6304	>500	160	33	16			
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>10000	618	1031	675			
Particles >6µm		ASTM D7647		190	172	224			
Particles >14µm		ASTM D7647	>160	20 6	8	19			
Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647	>40 >10	6 0	0	6			
Particles >30µm		ASTM D7647 ASTM D7647		0	0	0			
Oil Cleanliness		ISO 4406 (c)	>20/17/14	16/15/11	17/15/10	17/15/11			
		(9)							

Sample Rating Trend

NORMAL

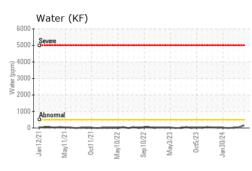
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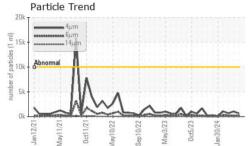
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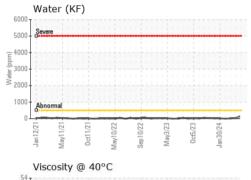
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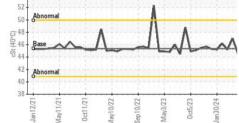


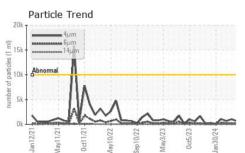
OIL ANALYSIS REPORT



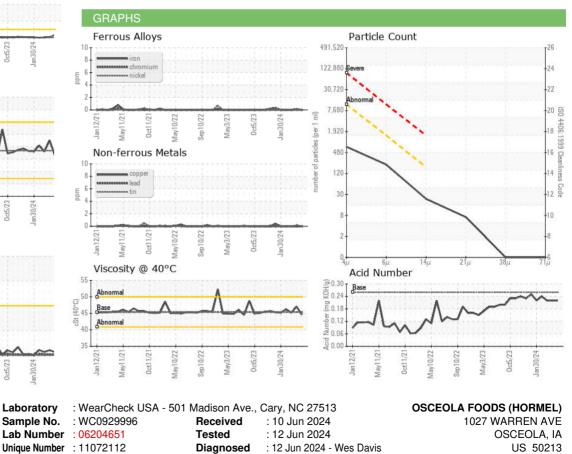








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	44.6	47.0	45.2
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						



Test Package : IND 2 (Additional Tests: KF)

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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Certificate 12367

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