

OIL ANALYSIS REPORT

Area **ROLL SHOP** 44 Farrel Spindle Lube 8100-014-0002

Hydraulic System

PETRO CANADA HYDREX MV 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

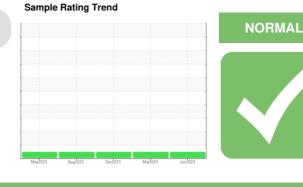
All component wear rates are normal.

Contamination

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



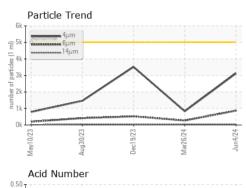
SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info KFS0004589 KFS0004784	4 KFS0004898
Sample Date Client Info 04 Jun 2024 26 Mar 2024	19 Dec 2023
Machine Age hrs Client Info 0 0	0
Oil Age hrs Client Info 0 0	0
Oil Changed Client Info N/A N/A	N/A
Sample Status NORMAL NORMAL	NORMAL
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 0 0	<1
Chromium ppm ASTM D5185m >20 <1 0	<1
Nickel ppm ASTM D5185m >20 0 1	0
Titanium ppm ASTM D5185m 0 0	0
Silver ppm ASTM D5185m 0 0	0
Aluminum ppm ASTM D5185m >20 2 <1	2
Lead ppm ASTM D5185m >20 0 0	0
Copper ppm ASTM D5185m >20 2 <1	0
Tin ppm ASTM D5185m >20 0 <1	0
Vanadium ppm ASTM D5185m 0 0	0
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 0 0	0
Molybdenum ppm ASTM D5185m 0 0	0
Manganese ppm ASTM D5185m 0 <1	0
Magnesium ppm ASTM D5185m <1 <1	<1
	33
Calcium ppm ASTM D5185m 38 46	33
Calcium ppm ASTM D5185m 38 46 Phosphorus ppm ASTM D5185m 290 253	268
Phosphorus ppm ASTM D5185m 290 253	268
Phosphorus ppm ASTM D5185m 290 253 Zinc ppm ASTM D5185m 421 403	268 290
Phosphorus ppm ASTM D5185m 290 253 Zinc ppm ASTM D5185m 421 403 Sulfur ppm ASTM D5185m 784 880	268 290 743
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Phosphorus ppm ASTM D5185m 290 253 Zinc ppm ASTM D5185m 421 403 Sulfur ppm ASTM D5185m 784 880 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >15 3 5 Sodium ppm ASTM D5185m >20 1 <1	268 290 743 history2 4 5 <1
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Phosphorus ppm ASTM D5185m 290 253 Zinc ppm ASTM D5185m 421 403 Sulfur ppm ASTM D5185m 784 880 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >15 3 5 Sodium ppm ASTM D5185m >15 3 5 Sodium ppm ASTM D5185m >20 1 <1 Potassium ppm ASTM D5185m >20 1 <1 FLUID CLEANLINESS method limit/base current history1 Particles >4μm ASTM D7647 >5000 3124 830 Particles >6μm ASTM D7647 >1300 870 270 Particles >14μm ASTM D7647 >160 33 34 Particles >21μm ASTM D7647 >40 6 12	268 290 743 history2 4 5 <1 5 <1 history2 3518 523 31 10
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Phosphorus ppm ASTM D5185m 290 253 Zinc ppm ASTM D5185m 421 403 Sulfur ppm ASTM D5185m 784 880 CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >15 3 5 Sodium ppm ASTM D5185m >15 3 5 Sodium ppm ASTM D5185m >20 1 <1 Potassium ppm ASTM D5185m >20 1 <1 FLUID CLEANLINESS method limit/base current history1 Particles >4µm ASTM D7647 >5000 3124 830 Particles >6µm ASTM D7647 >1300 870 270 Particles >14µm ASTM D7647 >160 33 34 Particles >21µm ASTM D7647 >40 6 12 Particles >38µm ASTM D7647 >10 0 0	268 290 743 history2 4 5 <1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1

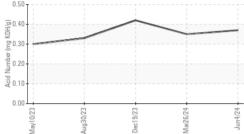
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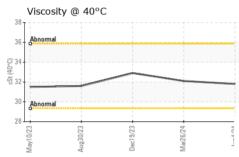
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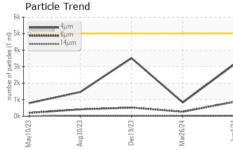


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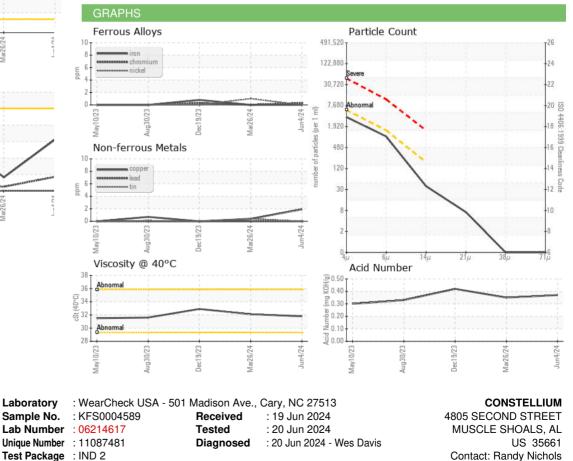








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		31.8	32.1	32.9
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



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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