

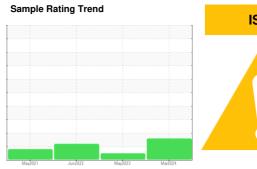
OIL ANALYSIS REPORT

VIAM/BLDG 3/Injection Mold [VIAM^BLDG 3^Injection Mold] INJ MOLD 06

Component

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

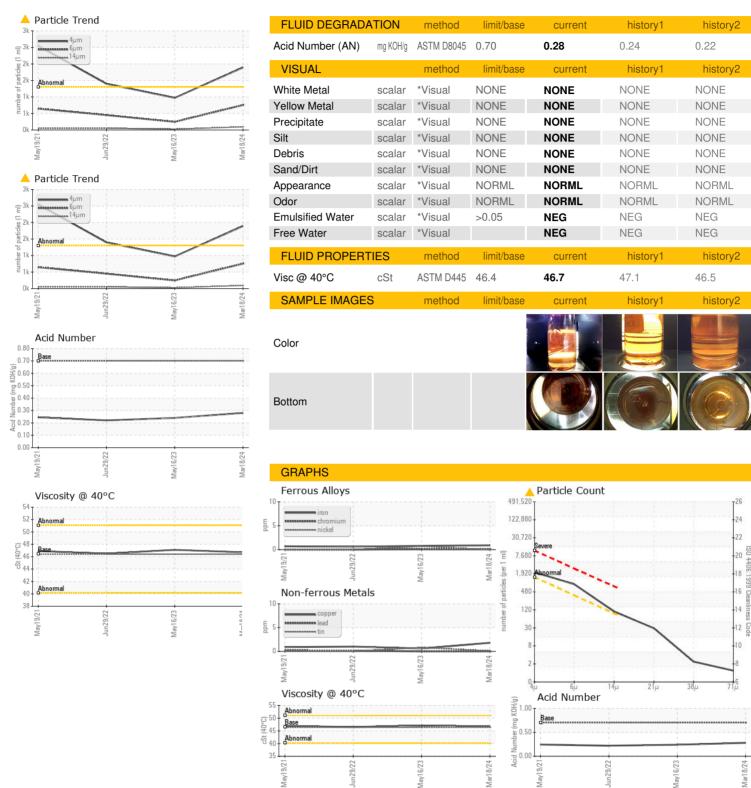
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

		May202	1 Jun2022	May2023 M	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0005067	KFS0002455	KFS0001634
Sample Date		Client Info		18 Mar 2024	16 May 2023	29 Jun 2022
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				ABNORMAL	NORMAL	ATTENTION
CONTAMINATIO	N	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	<1	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
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		0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m		2	<1	1
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	10 10 100	ACTM DETOE				
Oddiniani	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррш	method	limit/base	current	0 history1	history2
ADDITIVES	ppm		limit/base	-		
ADDITIVES Boron		method		current	history1	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185m	0	current 0	history1	history2
ADDITIVES Boron Barium Molybdenum	ppm	method ASTM D5185m ASTM D5185m	0	current 0 0	history1 0 0	history2 0 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0	history1 0 0 0	history2 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 <	history1 0 0 0 0	history2 0 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 50 330	current 0 0 <1 <1 <1 0 47 329	history1 0 0 0 0 41 2 48 351	history2 0 0 0 0 0 0 51 348
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 0 50 330 430	current 0 0 <1 <1 <1 0 47 329 421	history1 0 0 0 <1 2 48 351 438	history2 0 0 0 0 0 51 348 426
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 50 330	current 0 0 <1 <1 <1 0 47 329	history1 0 0 0 0 41 2 48 351	history2 0 0 0 0 0 0 51 348
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 0 50 330 430	current 0 0 <1 <1 <1 0 47 329 421	history1 0 0 0 <1 2 48 351 438	history2 0 0 0 0 0 51 348 426
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 50 330 430 760	current 0 0 <1 <1 0 47 329 421 1400 current <1	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1	history2 0 0 0 0 0 51 348 426 1516 history2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 50 330 430 760 Iimit/base	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1	history1 0 0 0 <1 2 48 351 438 1581 history1 <1 <1	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 0 50 330 430 760 limit/base >15	current 0 0 <1 <1 0 47 329 421 1400 current <1	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1	history2 0 0 0 0 0 51 348 426 1516 history2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	method ASTM D5185m	0 0 0 0 50 330 430 760 Iimit/base	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1	history1 0 0 0 <1 2 48 351 438 1581 history1 <1 <1	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	method ASTM D5185m method ASTM D5185m	0 0 0 0 0 50 330 430 760 limit/base >15 	current 0 0 0 <1 <1 <1 0 47 329 421 1400 current <1 <1 0 current	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 1 7 7 7 8 7 9 7 2	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	method ASTM D5185m method ASTM D5185m	0 0 0 0 50 330 430 760 limit/base >15	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1 0 current 1891 ↑ 755	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 <1 2 48 351 438 1581	history2 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2 1397 451
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium PtulD CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >1300 >320 >80	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1 0 current 1891 ↑ 755 93	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 history1 972 245 25	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2 1397 451 53
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >1300 >320 >80 >20	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1 0 current 1891 ↑755 93 26	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 history1 972 245 25 8	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2 1397 451 53 12
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >1300 >320 >80 >20 >4	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1 0 current 1891 ↑755 93 26 2	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 <1 2 48 351 438 1581 history1 <1 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2 1397 451 53 12 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >1300 >320 >80 >20 >4	current 0 0 0 <1 <1 0 47 329 421 1400 current <1 <1 0 current 1891 ↑755 93 26	history1 0 0 0 0 <1 2 48 351 438 1581 history1 <1 <1 <1 history1 972 245 25 8	history2 0 0 0 0 0 51 348 426 1516 history2 <1 <1 0 history2 1397 451 53 12



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No.

Lab Number : 06124846 **Unique Number** : 10938997

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0005067

Tested Diagnosed Test Package : IND 2

Received : 21 Mar 2024 : 22 Mar 2024

: 22 Mar 2024 - Wes Davis

VIAM/VICAM Manufacturing - Tennessee 87 Parktower Road Manchester, TN

US 37355 Contact: Eric Thompson

ethompson@viammfg.com T: (931)461-2300

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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