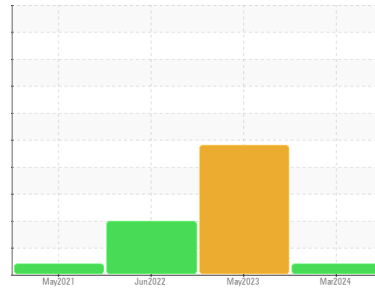




OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Area
VIAM/BLDG 3/Injection Mold
Machine Id
[VIAM^BLDG 3^Injection Mold] INJ MOLD 11
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

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	KFS0005120	KFS0002460	KFS0001021
Sample Date	Client Info	18 Mar 2024	16 May 2023	29 Jun 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		ABNORMAL	SEVERE	ABNORMAL

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	0
Chromium	ppm ASTM D5185m >20	<1	0	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 >20	0	<1	0
Lead	ppm ASTM D5185m >20	0	0	0
Copper	ppm ASTM D5185m >20	2	0	2
Tin	ppm ASTM D5185m >20	<1	<1	0
Antimony	ppm ASTM D5185m	---	---	---
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	0
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	<1	<1	0
Manganese	ppm ASTM D5185m 0	<1	<1	0
Magnesium	ppm ASTM D5185m 0	0	2	0
Calcium	ppm ASTM D5185m 50	49	51	53
Phosphorus	ppm ASTM D5185m 330	334	355	348
Zinc	ppm ASTM D5185m 430	433	468	439
Sulfur	ppm ASTM D5185m 760	1157	1032	1475

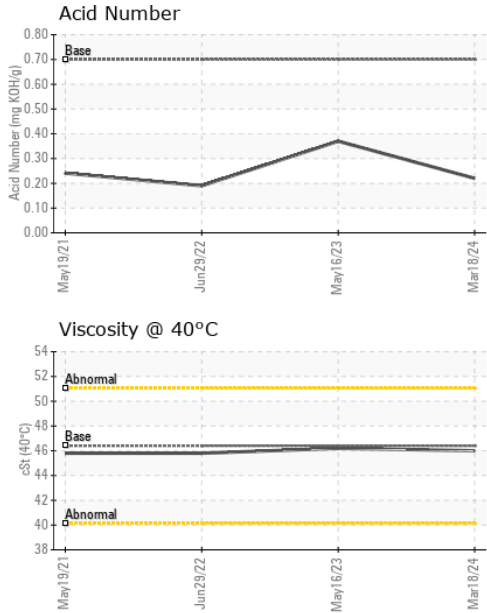
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<1	0	<1
Sodium	ppm ASTM D5185m	<1	<1	<1
Potassium	ppm ASTM D5185m >20	0	<1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	---	▲ 11752	▲ 10859
Particles >6µm	ASTM D7647 >320	---	▲ 4025	▲ 3089
Particles >14µm	ASTM D7647 >80	---	▲ 401	▲ 239
Particles >21µm	ASTM D7647 >20	---	▲ 94	▲ 42
Particles >38µm	ASTM D7647 >4	---	▲ 11	3
Particles >71µm	ASTM D7647 >3	---	2	0
Oil Cleanliness	ISO 4406 (c) >17/15/13	---	▲ 21/19/16	▲ 21/19/15

OIL ANALYSIS REPORT

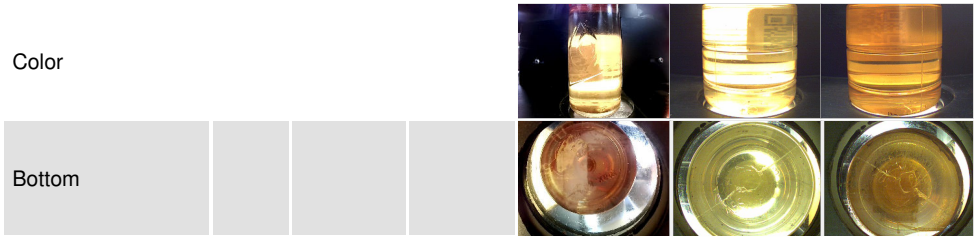


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.22	0.37	0.19

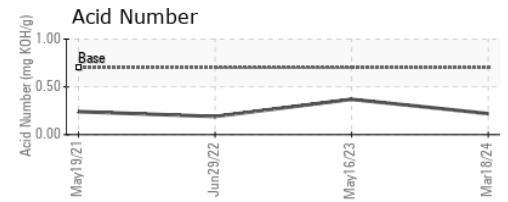
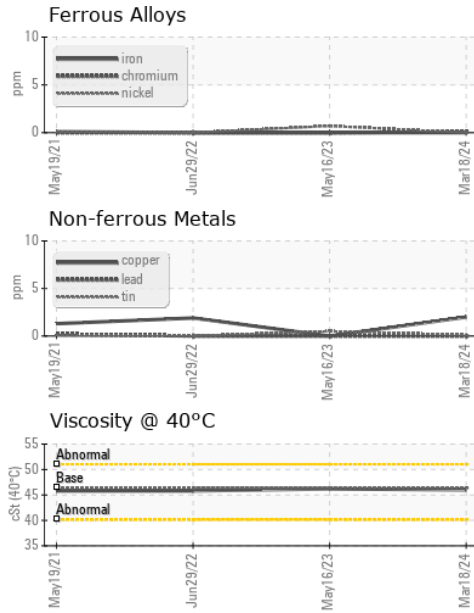
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	46.0	46.2	45.8

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005120 **Received** : 21 Mar 2024
Lab Number : **06124863** **Tested** : 24 Mar 2024
Unique Number : 10939014 **Diagnosed** : 24 Mar 2024 - Don Baldrige
Test Package : IND 2

VIAM/VICAM Manufacturing - Tennessee
 87 Parktower Road
 Manchester, TN
 US 37355
 Contact: Eric Thompson
 ethompson@viammfg.com
 T: (931)461-2300
 F:

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)