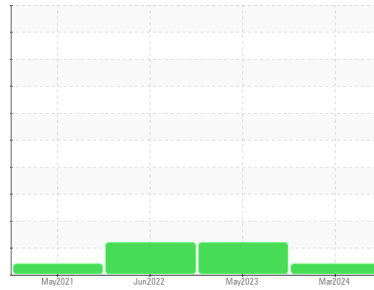




OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Area
VIAM/Main Floor
Machine Id
[VIAM^Main Floor] COMP 3 DIE CUTTER
Component
Hydraulic System
Fluid
PETRO CANADA TURBOFLO R&O 150 (--- 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	KFS0005136	KFS0002486	KFS0001649
Sample Date	Client Info	18 Mar 2024	16 May 2023	28 Jun 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	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	<1	<1	0
Chromium	ppm ASTM D5185m >20	<1	<1	0
Nickel	ppm ASTM D5185m >20	0	0	0
Titanium	ppm ASTM D5185m	0	<1	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	2	2
Tin	ppm ASTM D5185m >20	<1	0	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
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	<1	<1	0
Manganese	ppm ASTM D5185m	<1	<1	0
Magnesium	ppm ASTM D5185m	0	0	0
Calcium	ppm ASTM D5185m 0	0	0	2
Phosphorus	ppm ASTM D5185m 4	156	188	196
Zinc	ppm ASTM D5185m 0	79	78	114
Sulfur	ppm ASTM D5185m	1234	1086	1310

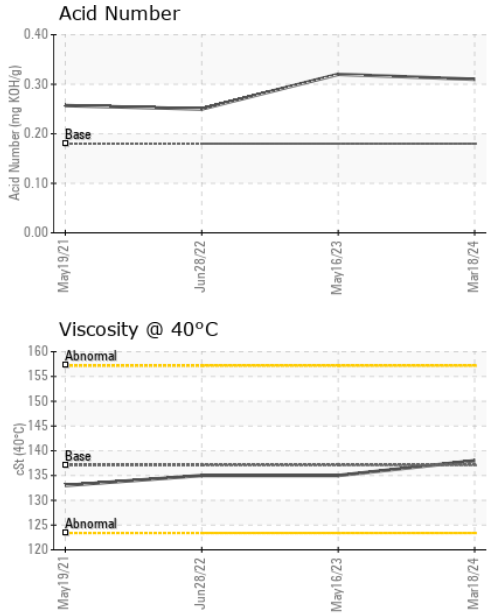
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	4	2	2
Sodium	ppm ASTM D5185m	<1	<1	<1
Potassium	ppm ASTM D5185m >20	0	0	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	---	▲ 8136	▲ 5455
Particles >6µm	ASTM D7647 >320	---	▲ 849	▲ 853
Particles >14µm	ASTM D7647 >80	---	23	59
Particles >21µm	ASTM D7647 >20	---	4	17
Particles >38µm	ASTM D7647 >4	---	0	3
Particles >71µm	ASTM D7647 >3	---	0	1
Oil Cleanliness	ISO 4406 (c) >17/15/13	---	▲ 20/17/12	▲ 20/17/13

OIL ANALYSIS REPORT

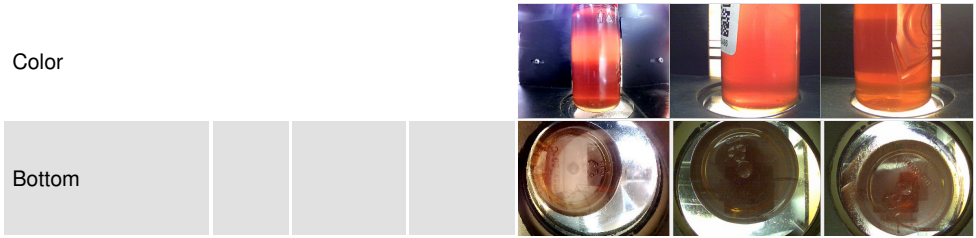


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.18	0.31	0.32	0.25

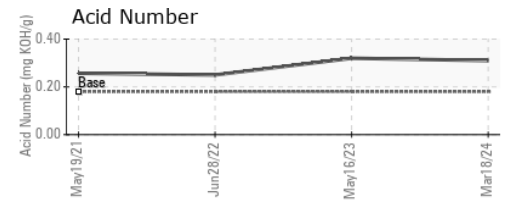
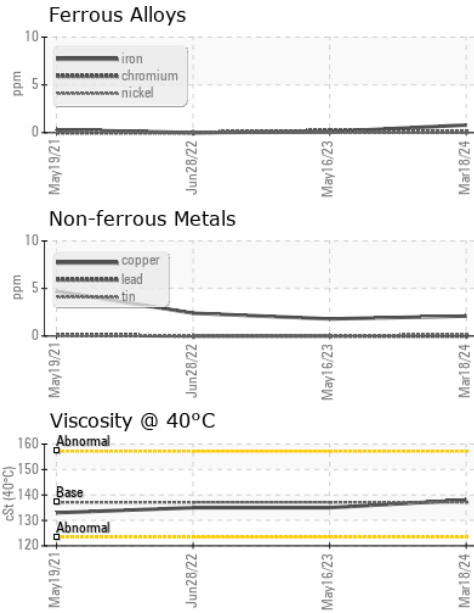
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	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	137.1	138	135	135

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005136
Lab Number : **06124851**
Unique Number : 10939002
Test Package : IND 2
Received : 21 Mar 2024
Tested : 24 Mar 2024
Diagnosed : 24 Mar 2024 - Don Baldrige

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)