

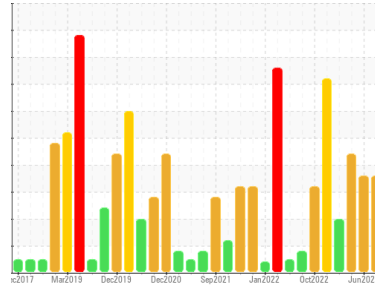


PROBLEM SUMMARY

Area
VEG PREP
Machine Id
VANMARK B33759 - PEELER 2

Component
Hydraulic System
Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

Sample Rating Trend

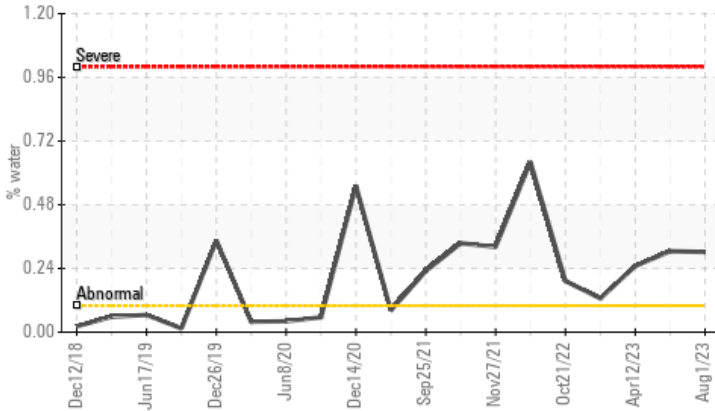


WATER



COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.1	▲ 0.302	▲ 0.305	▲ 0.249
ppm Water	ppm	ASTM D6304	>1000	▲ 3020	▲ 3050	▲ 2490
Silt	scalar	*Visual	NONE	▲ HEAVY	▲ MODER	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	▲ MODER
Appearance	scalar	*Visual	NORML	▲ MILKY	▲ HAZY	▲ HAZY

Customer Id: ROCROCUS
Sample No.: WC0814278
Lab Number: 05922160
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

06 Jun 2023 Diag: Don Baldrige

WATER



We recommend you service the filters on this component. 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. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

[view report](#)



12 Apr 2023 Diag: Don Baldrige

WATER



We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. 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. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

[view report](#)



25 Jan 2023 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

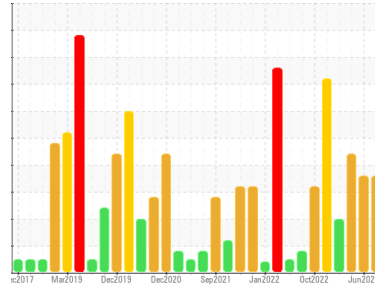
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OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
VEG PREP
 Machine Id
VANMARK B33759 - PEELER 2

Component
Hydraulic System
 Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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

Appearance is milky. Moderate concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample.

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		WC0814278	WC0791978	WC0791886
Sample Date	Client Info		01 Aug 2023	06 Jun 2023	12 Apr 2023
Machine Age	yrs	Client Info	0	0	0
Oil Age	yrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	13	12	18
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	1	0	<1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >75	2	2	1
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	<1	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	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	<1
Calcium	ppm	ASTM D5185m	0	0	<1
Phosphorus	ppm	ASTM D5185m	467	455	416
Zinc	ppm	ASTM D5185m	0	0	0
Sulfur	ppm	ASTM D5185m	578	587	268

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	3	2	2
Sodium	ppm	ASTM D5185m	1	2	<1
Potassium	ppm	ASTM D5185m >20	0	2	0
Water	%	ASTM D6304 >0.1	▲ 0.302	▲ 0.305	▲ 0.249
ppm Water	ppm	ASTM D6304 >1000	▲ 3020	▲ 3050	▲ 2490

FLUID CLEANLINESS

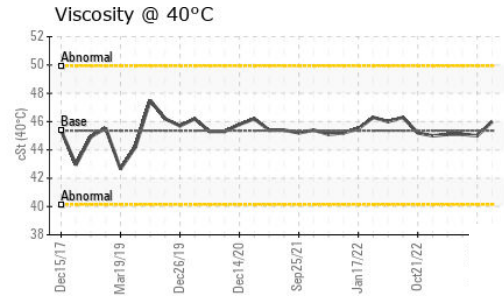
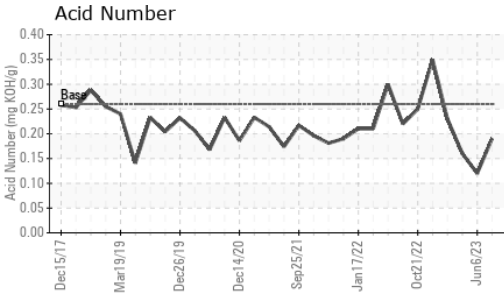
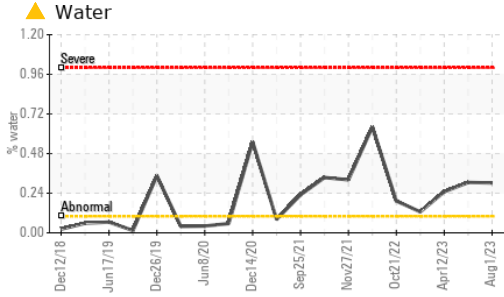
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	---	---
Particles >6µm	ASTM D7647	>1300	---	---	---
Particles >14µm	ASTM D7647	>160	---	---	---
Particles >21µm	ASTM D7647	>40	---	---	---
Particles >38µm	ASTM D7647	>10	---	---	---
Particles >71µm	ASTM D7647	>3	---	---	---
Oil Cleanliness	ISO 4406 (c)	>20/17/14	---	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.26	0.19	0.12	0.16



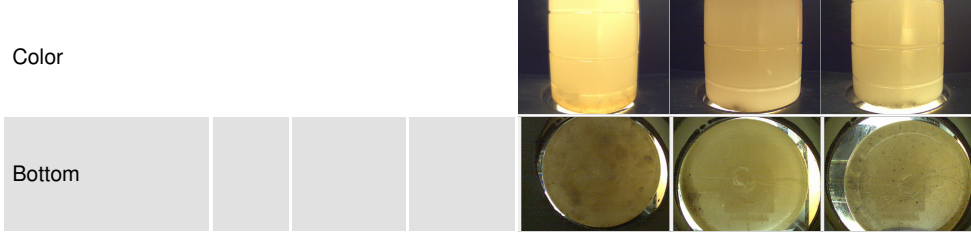
OIL ANALYSIS REPORT



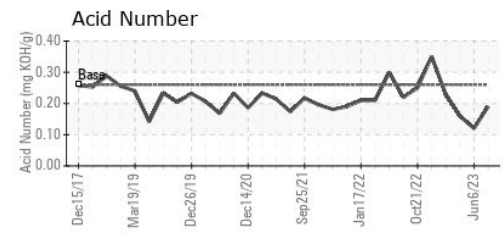
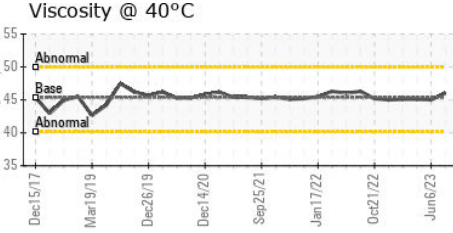
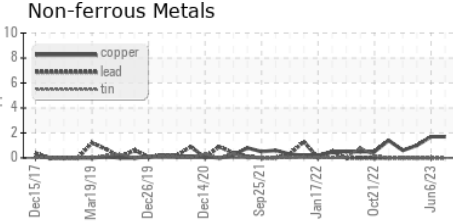
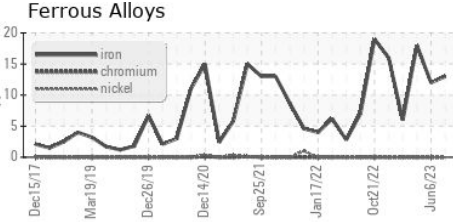
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ HEAVY	▲ MODER	NONE
Debris	scalar	*Visual	▲ MODER	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	▲ MILKY	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	46.0	45.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0814278 **Received** : 11 Aug 2023
Lab Number : 05922160 **Diagnosed** : 14 Aug 2023
Unique Number : 10602107 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

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 F: (815)562-4147

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)