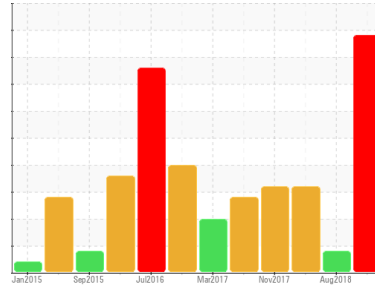


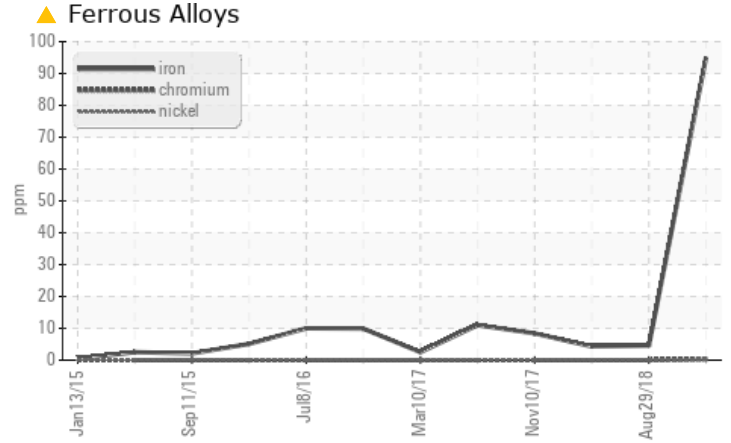
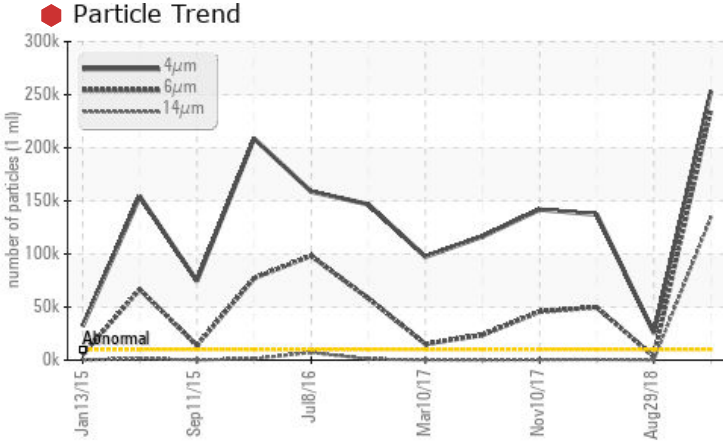
PROBLEM SUMMARY

Sample Rating Trend



Area
CHIQUITA TROPICAL INGREDIENTS SA (MUNDIMAR)
Machine Id
FILTER COMPRESSOR VILTER 451
Component
Compressor
Fluid
PETRO CANADA REFLO SYNTHETIC 68A LOW TEMP FLUID (65 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ABNORMAL	SEVERE	
Iron	ppm	ASTM D5185(m)	>50	▲ 95	5	4
Particles >4µm		ASTM D7647	>10000	● 253422	▲ 25565	● 137174
Particles >6µm		ASTM D7647	>2500	● 235444	▲ 3247	● 49740
Particles >14µm		ASTM D7647	>320	● 134330	27	▲ 607
Particles >21µm		ASTM D7647	>80	● 62336	4	78
Particles >38µm		ASTM D7647	>20	▲ 62	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	● 25/25/24	▲ 22/19/12	● 24/23/16

Customer Id: INDALA
Sample No.: PC0077178
Lab Number: 02562231
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@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	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
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

29 Aug 2018 Diag: Kevin Marson

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are notably high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



03 May 2018 Diag: Bill Quesnel

ISO



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm are severely high. Particles >14µm are notably high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



10 Nov 2017 Diag: Wes Davis

ISO

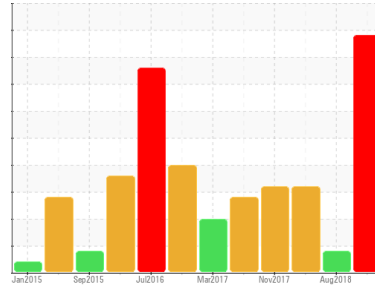


Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm are severely high. Particles >14µm are notably high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



Area
CHIQUITA TROPICAL INGREDIENTS SA (MUNDIMAR)
Machine Id
VILTER COMPRESSOR VILTER 451
Component
Compressor
Fluid
PETRO CANADA REFLO SYNTHETIC 68A LOW TEMP FLUID (65 GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Wear

Iron ppm levels are abnormal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0077178	PC410521	PC409188
Sample Date	Client Info	25 May 2023	29 Aug 2018	03 May 2018
Machine Age	yrs Client Info	1	43791	41455
Oil Age	yrs Client Info	0	0	0
Oil Changed	Client Info	N/A	Not Changd	Not Changd
Sample Status		SEVERE	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	12	---	---
Iron	ppm ASTM D5185(m) >50	95	5	4
Chromium	ppm ASTM D5185(m) >10	<1	0	0
Nickel	ppm ASTM D5185(m)	<1	0	0
Titanium	ppm ASTM D5185(m)	<1	0	0
Silver	ppm ASTM D5185(m)	0	0	0
Aluminum	ppm ASTM D5185(m) >25	1	0	0
Lead	ppm ASTM D5185(m) >25	0	0	<1
Copper	ppm ASTM D5185(m) >50	2	0	<1
Tin	ppm ASTM D5185(m) >15	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	<1
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<1	0	0
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 0	0	0	0
Manganese	ppm ASTM D5185(m)	<1	0	0
Magnesium	ppm ASTM D5185(m) 0	<1	<1	0
Calcium	ppm ASTM D5185(m) 0	1	<1	0
Phosphorus	ppm ASTM D5185(m) 0	<1	<1	<1
Zinc	ppm ASTM D5185(m) 0	52	<1	1
Sulfur	ppm ASTM D5185(m) 0	7	<1	4
Lithium	ppm ASTM D5185(m)	<1	0	<1

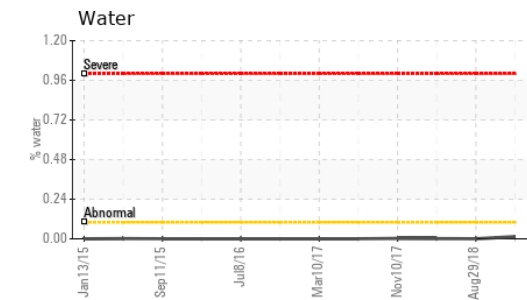
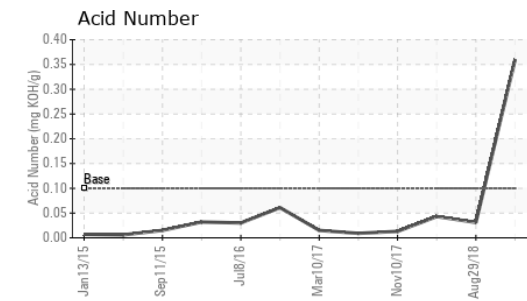
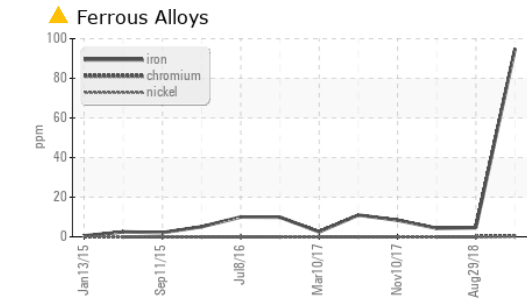
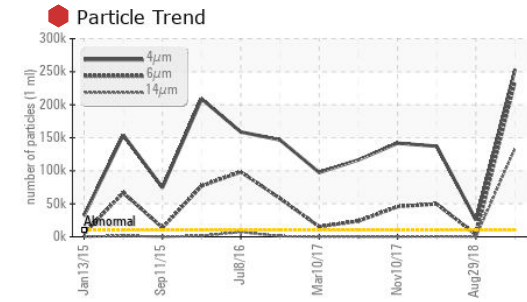
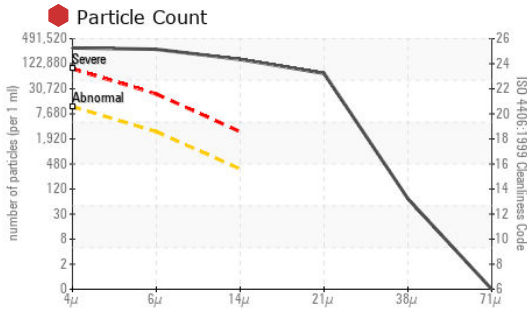
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	12	<1	<1
Sodium	ppm ASTM D5185(m)	3	0	<1
Potassium	ppm ASTM D5185(m) >20	<1	0	<1
Water	% ASTM D6304* >0.1	0.013	0.000	0.001
ppm Water	ppm ASTM D6304* >1000	135.4	6.1	11.7

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	253422	25565	137174
Particles >6µm	ASTM D7647 >2500	235444	3247	49740
Particles >14µm	ASTM D7647 >320	134330	27	607
Particles >21µm	ASTM D7647 >80	62336	4	78
Particles >38µm	ASTM D7647 >20	62	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	25/25/24	22/19/12	24/23/16

OIL ANALYSIS REPORT

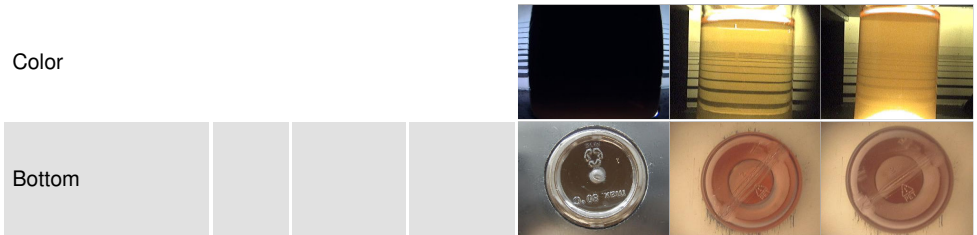


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.1	0.36	0.031	0.043

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	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	AMMON	AMMON
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	61.8	56.9	56.7	57.5
Visc @ 100°C	cSt	ASTM D7279(m)	8.89	8.4	8.3	8.4
Viscosity Index (VI)	Scale	ASTM D2270*	119	119	117	117

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

Bottom



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**
Sample No. : PC0077178 **Received** : 06 Jun 2023 Contiguo FANAL, frente a la Autopista Bernardo Soto
Lab Number : **02562231** **Diagnosed** : 08 Jun 2023 Grecia, A
Unique Number : 5591272 **Diagnostician** : Kevin Marson CR
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

Contact: Erick Bogantes
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 T: 1(115)062-1598
 F: 1(115)062-2870