

PROBLEM SUMMARY

Sample Rating Trend



ISO



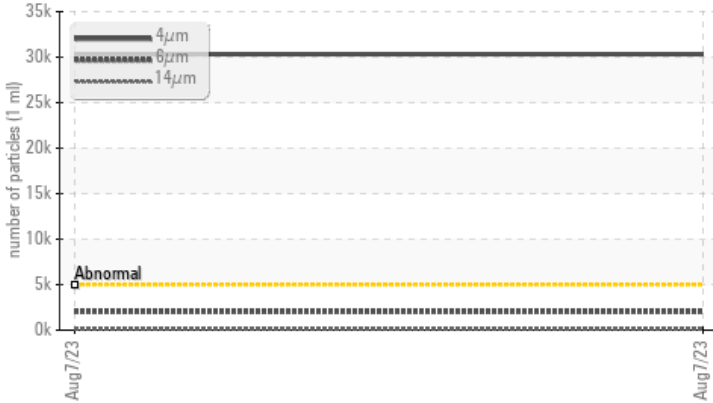
Machine Id
NAKOMARA 500244

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 30323	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2031	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/18/14	---	---

Customer Id: GROLIS
Sample No.: PC0069642
Lab Number: 02575699
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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

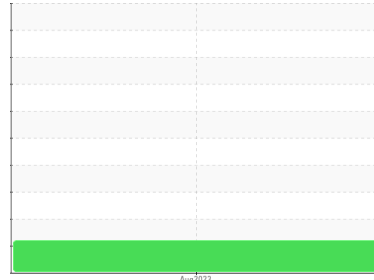
HISTORICAL DIAGNOSIS



Machine Id
NAKOMARA 500244

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)



DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

Fluid Condition

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0069642	---	---
Sample Date	Client Info	07 Aug 2023	---	---
Machine Age	hrs Client Info	22084	---	---
Oil Age	hrs Client Info	22084	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >20	1	---	---
Chromium ppm	ASTM D5185(m) >20	0	---	---
Nickel ppm	ASTM D5185(m) >20	0	---	---
Titanium ppm	ASTM D5185(m)	0	---	---
Silver ppm	ASTM D5185(m)	0	---	---
Aluminum ppm	ASTM D5185(m) >20	4	---	---
Lead ppm	ASTM D5185(m) >20	<1	---	---
Copper ppm	ASTM D5185(m) >20	2	---	---
Tin ppm	ASTM D5185(m) >20	1	---	---
Antimony ppm	ASTM D5185(m)	0	---	---
Vanadium ppm	ASTM D5185(m)	0	---	---
Beryllium ppm	ASTM D5185(m)	0	---	---
Cadmium ppm	ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185(m) 0	<1	---	---
Barium ppm	ASTM D5185(m) 0	2	---	---
Molybdenum ppm	ASTM D5185(m) 0	0	---	---
Manganese ppm	ASTM D5185(m) 1	0	---	---
Magnesium ppm	ASTM D5185(m) 0	<1	---	---
Calcium ppm	ASTM D5185(m) 100	94	---	---
Phosphorus ppm	ASTM D5185(m) 670	642	---	---
Zinc ppm	ASTM D5185(m) 850	808	---	---
Sulfur ppm	ASTM D5185(m) 1600	1447	---	---
Lithium ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >15	13	---	---
Sodium ppm	ASTM D5185(m)	1	---	---
Potassium ppm	ASTM D5185(m) >20	<1	---	---

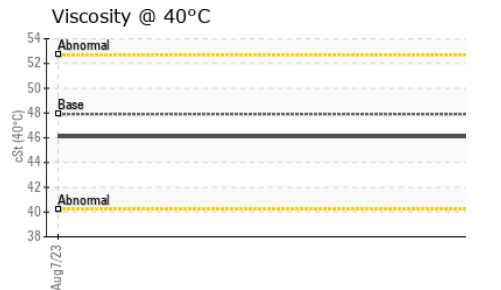
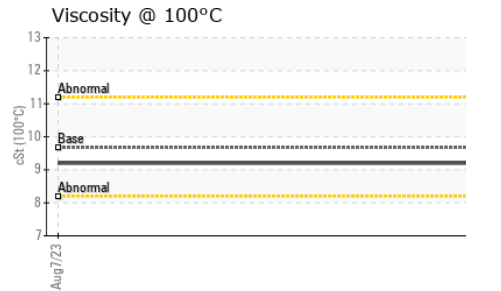
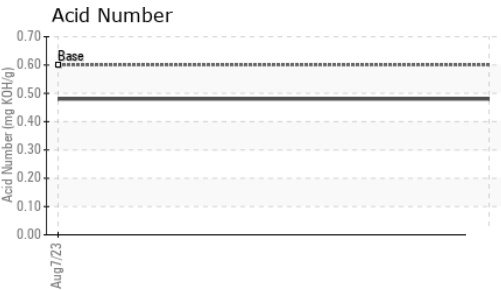
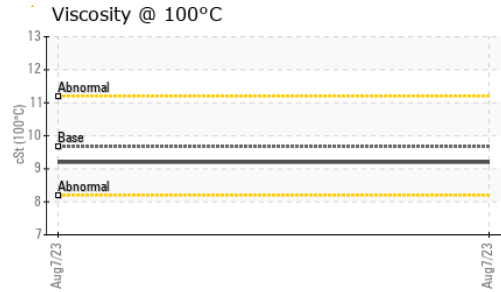
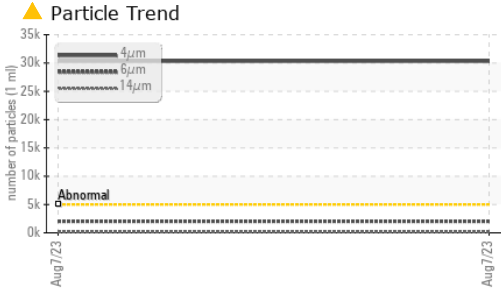
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 30323	---	---
Particles >6µm	ASTM D7647 >1300	▲ 2031	---	---
Particles >14µm	ASTM D7647 >160	108	---	---
Particles >21µm	ASTM D7647 >40	32	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/18/14	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974* 0.60	0.48	---	---

OIL ANALYSIS REPORT

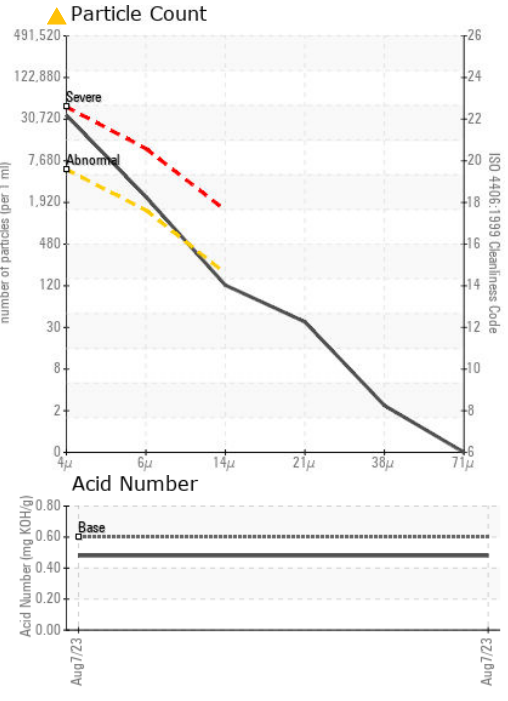
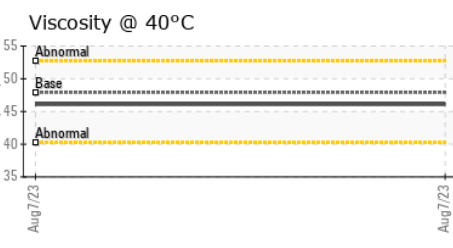
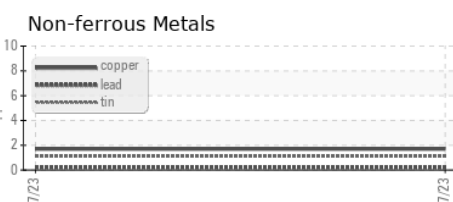
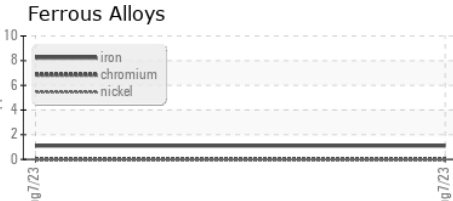


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	46.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	9.2	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	186	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0069642 **Received** : 14 Aug 2023
Lab Number : 02575699 **Diagnosed** : 15 Aug 2023
Unique Number : 5620750 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

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 L'Islet, QC
 CA G0R 2C0
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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.