



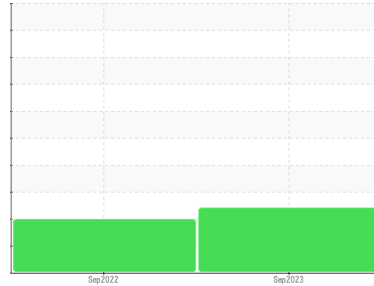
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
711033
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)



DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filtres pour des points d'entrée des contaminants. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

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

Contamination

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

Fluid Condition

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		GFL0088882	GFL0047526	---
Sample Date	Client Info		02 Sep 2023	19 Sep 2022	---
Machine Age	hrs	Client Info	77618	0	---
Oil Age	hrs	Client Info	0	2400	---
Oil Changed	Client Info		Not Chngd	N/A	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	11	6	---
Chromium	ppm	ASTM D5185(m) >10	1	<1	---
Nickel	ppm	ASTM D5185(m) >4	0	0	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	<1	0	---
Aluminum	ppm	ASTM D5185(m) >5	1	<1	---
Lead	ppm	ASTM D5185(m) >4	0	0	---
Copper	ppm	ASTM D5185(m) >15	2	2	---
Tin	ppm	ASTM D5185(m) >4	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	0	0	---
Manganese	ppm	ASTM D5185(m) 1	0	0	---
Magnesium	ppm	ASTM D5185(m) 0	4	1	---
Calcium	ppm	ASTM D5185(m) 50	59	52	---
Phosphorus	ppm	ASTM D5185(m) 330	369	342	---
Zinc	ppm	ASTM D5185(m) 430	442	400	---
Sulfur	ppm	ASTM D5185(m) 760	800	771	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

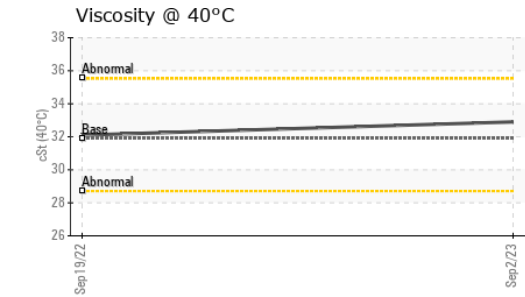
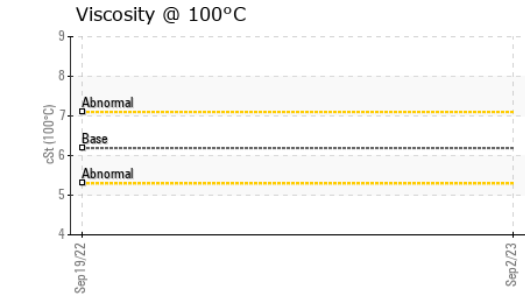
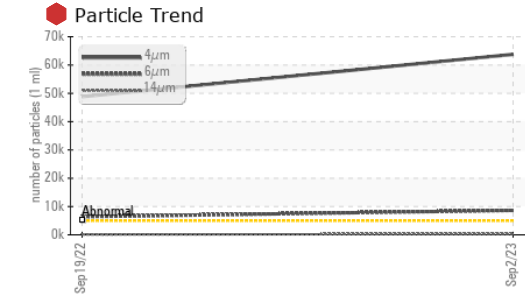
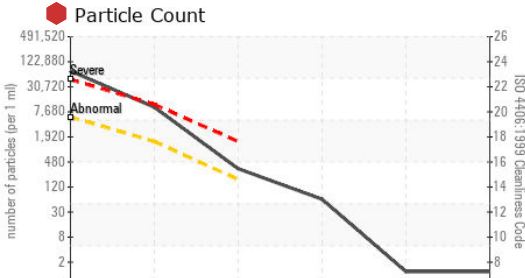
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	4	2	---
Sodium	ppm	ASTM D5185(m)	8	5	---
Potassium	ppm	ASTM D5185(m) >20	1	<1	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624*	1.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	17.4	---	---



OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	63754	48804	---	
Particles >6µm	ASTM D7647	>1300	8631	6395	---	
Particles >14µm	ASTM D7647	>160	291	101	---	
Particles >21µm	ASTM D7647	>40	54	26	---	
Particles >38µm	ASTM D7647	>10	1	0	---	
Particles >71µm	ASTM D7647	>3	1	0	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/20/15	23/20/14	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		9.5	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.9	32.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.19	6.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	147	134	---	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0088882 **Received** : 12 Sep 2023 4365 boul. St-Elzear Ouest,
Lab Number : 02581860 **Diagnosed** : 13 Sep 2023 Laval, QC
Unique Number : 5642925 **Diagnostician** : Wes Davis CA H7P 4J3
Test Package : MOB 1 (Additional Tests: FT-IR, KV100, PrtCount, VI) Contact: Pieces Laval

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.

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