

Machine Id
VOLVO VNL 2045

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0073715	PC0041933	---
Sample Date	Client Info			07 Apr 2023	02 Sep 2022	---
Machine Age	kms	Client Info		321914	233000	---
Oil Age	kms	Client Info		89091	85000	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Glycol	WC Method			NEG	NEG	---

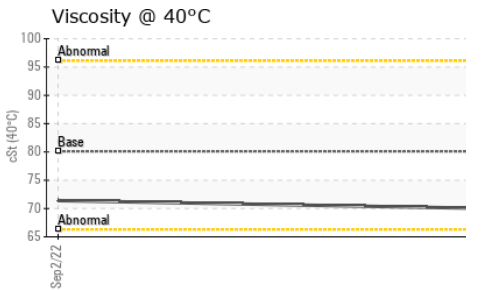
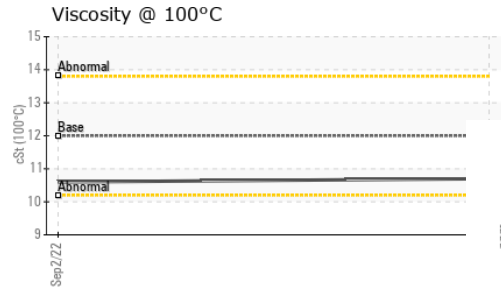
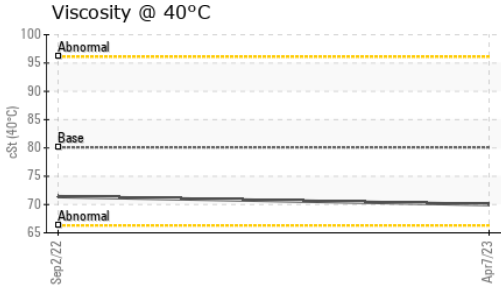
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	52	57	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	7	9	---
Lead	ppm	ASTM D5185(m)	>40	3	4	---
Copper	ppm	ASTM D5185(m)	>330	46	56	---
Tin	ppm	ASTM D5185(m)	>15	2	3	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
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)	2	2	5	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	58	34	---
Manganese	ppm	ASTM D5185(m)	0	<1	1	---
Magnesium	ppm	ASTM D5185(m)	950	854	240	---
Calcium	ppm	ASTM D5185(m)	1050	1231	1931	---
Phosphorus	ppm	ASTM D5185(m)	995	999	1043	---
Zinc	ppm	ASTM D5185(m)	1180	1204	1181	---
Sulfur	ppm	ASTM D5185(m)	2600	2100	2567	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	6	---
Sodium	ppm	ASTM D5185(m)		7	4	---
Potassium	ppm	ASTM D5185(m)	>20	10	16	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	0.6	---
Nitration	Abs/cm	ASTM D7624*	>20	12.2	12.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	26.8	---

OIL ANALYSIS REPORT

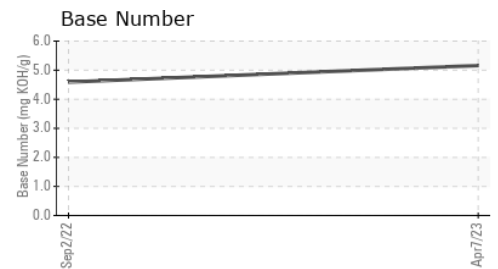
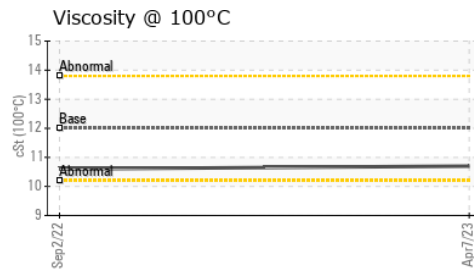
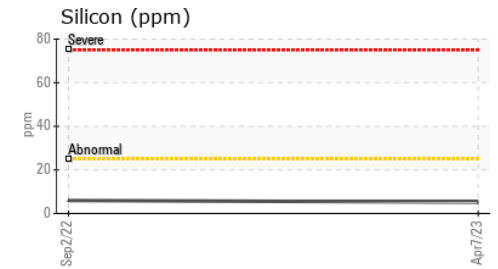
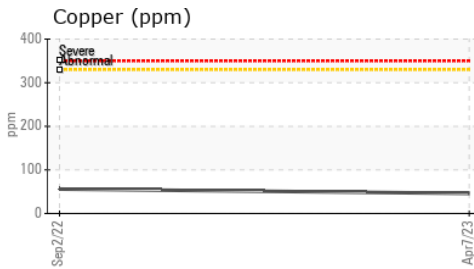
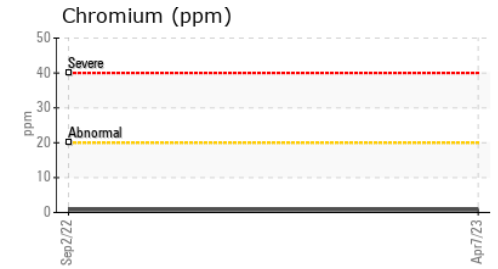
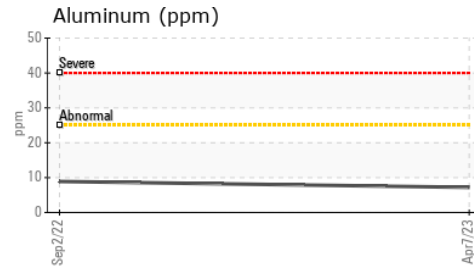
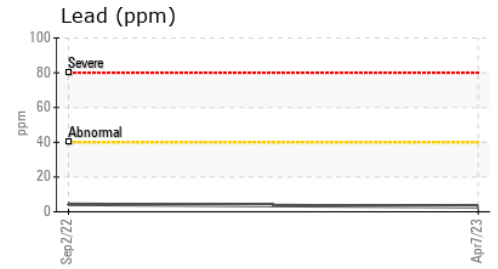
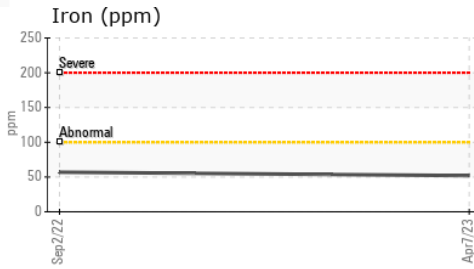


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	20.8	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896*		5.16	4.59	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	70.0	71.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.7	10.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	141	135	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073715
Lab Number : 02556789
Unique Number : 5577829
Test Package : MOB 2 (Additional Tests: KV40, VI)

HUILES DESROCHES INC.

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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.