

Machine Id
VOLVO VNL 2247

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			PC0073718	PC0041935	PC0041926
Sample Date	Client Info			24 Nov 2023	22 Aug 2022	07 Mar 2022
Machine Age	kms	Client Info		333505	132107	54597
Oil Age	kms	Client Info		109143	77500	54597
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<1.0	<1.0	0.6
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

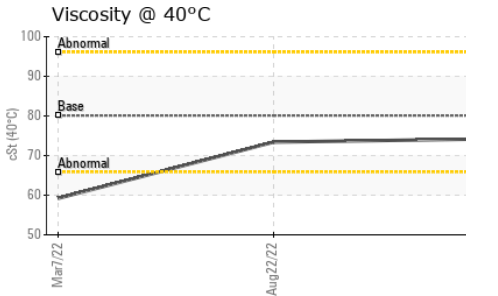
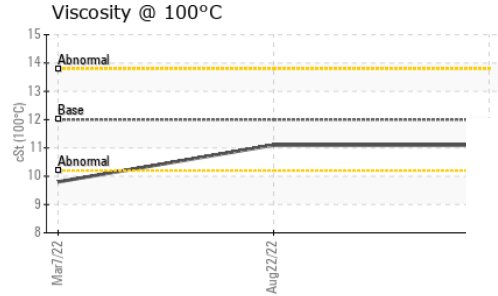
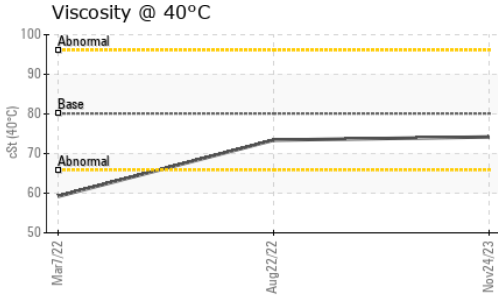
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	82	57	58
Chromium	ppm	ASTM D5185(m)	>20	1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	2	2	3
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	10	20	20
Lead	ppm	ASTM D5185(m)	>40	3	7	9
Copper	ppm	ASTM D5185(m)	>330	20	154	190
Tin	ppm	ASTM D5185(m)	>15	2	3	7
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<1	4	127
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	62	105
Manganese	ppm	ASTM D5185(m)	0	<1	2	5
Magnesium	ppm	ASTM D5185(m)	950	951	897	766
Calcium	ppm	ASTM D5185(m)	1050	1081	1080	1424
Phosphorus	ppm	ASTM D5185(m)	995	974	951	729
Zinc	ppm	ASTM D5185(m)	1180	1203	1114	841
Sulfur	ppm	ASTM D5185(m)	2600	2035	1824	1999
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	10	40
Sodium	ppm	ASTM D5185(m)		3	4	5
Potassium	ppm	ASTM D5185(m)	>20	14	50	49

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.5	0.2
Nitration	Abs/cm	ASTM D7624*	>20	13.9	11.7	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.6	24.3	26.0

OIL ANALYSIS REPORT

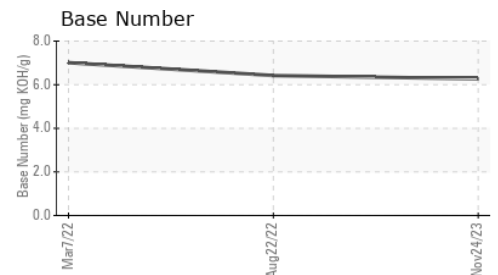
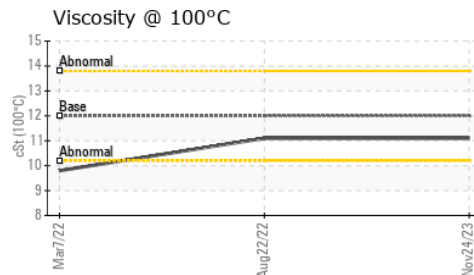
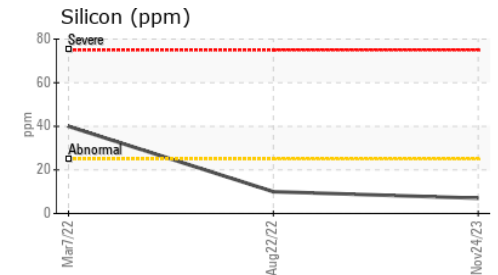
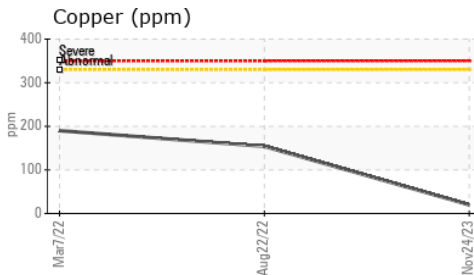
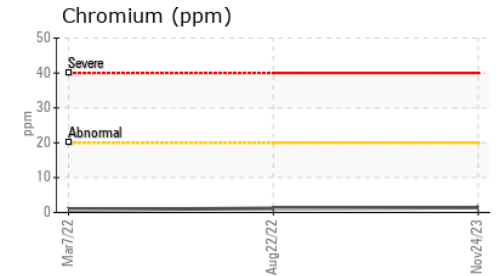
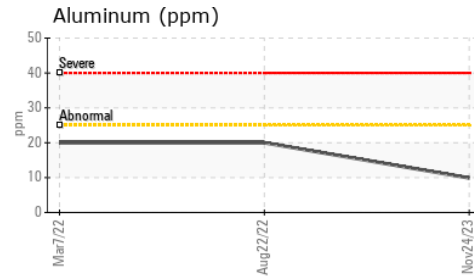
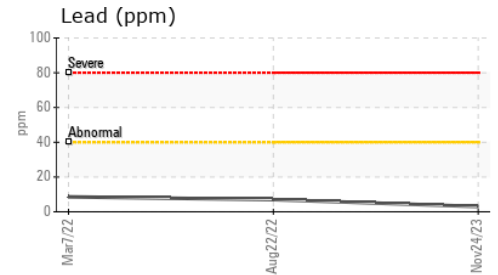
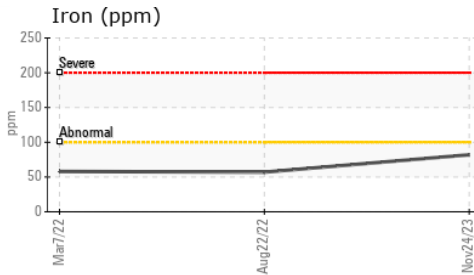


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	24.5	20.9	22.6
Base Number (BN)	mg KOH/g	ASTM D2896*		6.27	6.42	7.01

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	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)	80.1	74.2	73.4	▲ 59.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.1	▲ 9.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	139	141	150

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073718 **Received** : 27 Dec 2023
Lab Number : **02605157** **Diagnosed** : 27 Dec 2023
Unique Number : 5698242 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI)

HUILES DESROCHES INC.
 915 RUE PHILIPPE-PARADIS, LOCAL 115
 QUEBEC, QC
 CA G1N 4E3
 Contact: David Labrecque
 david.labrecque@groupe-desroches.ca
 T: (418)621-5150
 F: (418)621-0822

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.