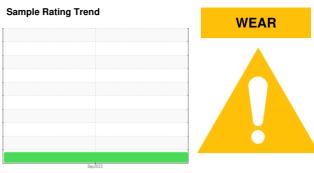


# **OIL ANALYSIS REPORT**

Area [62146] **VOLVO 4635** 

Component **Diesel Engine** 

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



## **DIAGNOSIS**

## Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

## 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. There is no indication of any contamination in the oil.

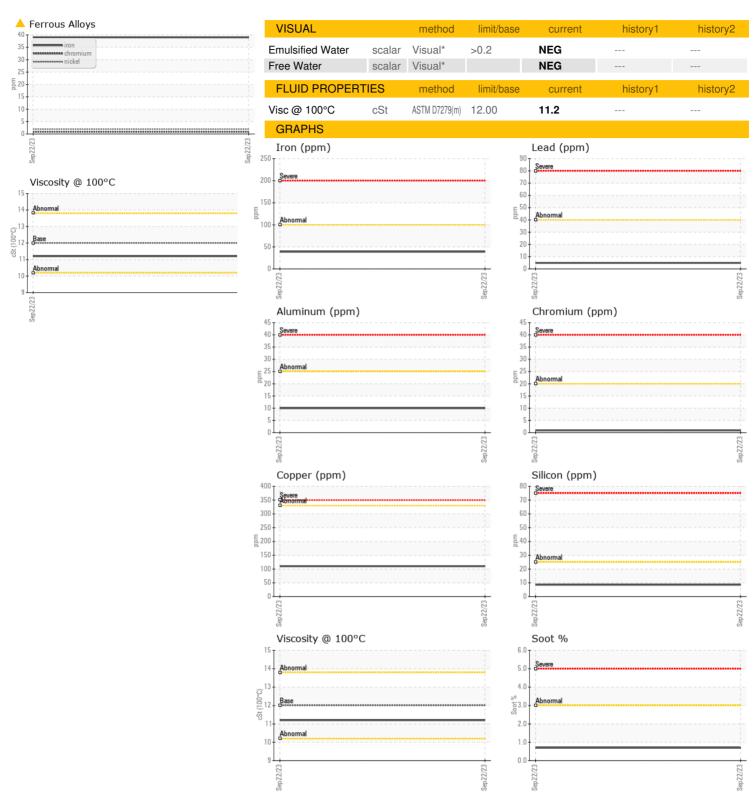
## **Fluid Condition**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

GAL)				Sep 2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853700		
Sample Date		Client Info		22 Sep 2023		
Machine Age	kms	Client Info		192951		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	39		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>2	<u>^</u> 2		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>25	10		
Lead	ppm	ASTM D5185(m)	>40	5		
Copper	ppm	ASTM D5185(m)	>330	110		
Tin	ppm	ASTM D5185(m)	>15	2		
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)	2	4		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	50	67		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	950	879		
Calcium	ppm	ASTM D5185(m)	1050	1252		
Phosphorus	ppm	ASTM D5185(m)	995	812		
Zinc	ppm	ASTM D5185(m)		1093		
Sulfur	ppm	ASTM D5185(m)	2600	1961		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	22		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7		
Nitration	Abs/cm	ASTM D7624*	>20	11.1		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1		



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0853700

: 02586329 : 5655395 Test Package : MOB 1

Received

: 03 Oct 2023 Diagnosed Diagnostician : Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK : 03 Oct 2023 415 EVANS AVENUE ETOBICOKE, ON

CA M8W 0B3 Contact: Service

etobservice@visiontruckgroup.com T:

Validity of results and interpretation are based on the sample and information as supplied.

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.

F:

Contact/Location: Service ? - PER415ETO