

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



WOLVO VNL 173 (S/N 4V4NC9EH6PN315466)

Diesel Engine

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

Fluid PETPO CANA

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0097546 PCA0097447 PCA00 Sample Date Client Info 24 Aug 2023 24 Aug 2023 30 Mag Machine Age mls Client Info 171000 197000 146000 Oil Age mls Client Info 29000 29000 0 Oil Changed Client Info Changed Changed Changed Changed Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method NEG NEG NEG WEAR METALS method limit/base current history1 his Iron ppm ASTM D5185m >100 18 16 19 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm	story2	
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Tin ppm ASTM D5185m >15 <1 <1 <1		
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Vanadium ppm ASTM D5185m 0 0 0		
Cadmium ppm ASTM D5185m 0 0 0		
	story2	
Boron ppm ASTM D5185m 2 2 0 2		
Barium ppm ASTM D5185m 0 0 0		
Molybdenum ppm ASTM D5185m 50 60 62 67		
Manganese ppm ASTM D5185m 0 <1 <1		
Magnesium ppm ASTM D5185m 950 923 936 938		
Calcium ppm ASTM D5185m 1050 980 988 111	5	
Phosphorus ppm ASTM D5185m 995 1004 995 108	5	
Zinc ppm ASTM D5185m 1180 1211 1217 129	6	
Sulfur ppm ASTM D5185m 2600 3362 3353 362	6	
CONTAMINANTS method limit/base current history1 his	story2	
Silicon ppm ASTM D5185m >25 4 4 4		
Sodium ppm ASTM D5185m <1 0		
Potassium ppm ASTM D5185m >20 3 3 4		
INFRA-RED method limit/base current history1 his		
Soot % % *ASTM D7844 >3 0.3 0.3 0.4	story2	
Nitration Abs/cm *ASTM D7624 >20 9.2 9.2 9.2	story2	
Sulfation Abs/.1mm *ASTM D7415 >30 19.7 20.0 21.2	story2	

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896

Oxidation

Abs/.1mm *ASTM D7414 >25

16.7

7.0

17.4

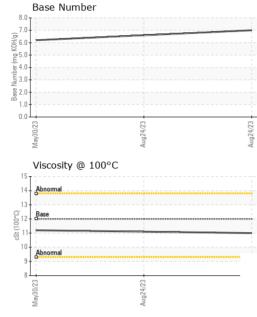
6.6

19.2

6.2



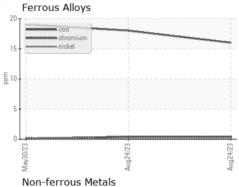
OIL ANALYSIS REPORT

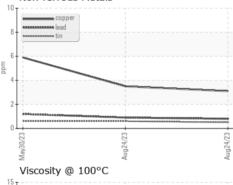


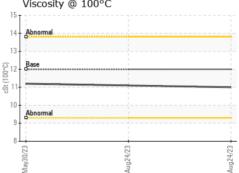
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

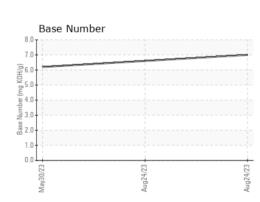
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1	11.2

GRAPHS













Certificate L2367

Laboratory Test Package : FLEET

Sample No. Lab Number Unique Number : 10683905

: PCA0097546 : 05971955

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 06 Oct 2023 : 09 Oct 2023 Diagnostician : Wes Davis

TVA REPAIR LLC 13915 W ROUTE 30 PLAINFIELD, IL US 60544 Contact: JOSHUA HUBBARD

joshua@tvarepairllc.com T: (815)306-0330

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.