

PROBLEM SUMMARY

Sample Rating Trend

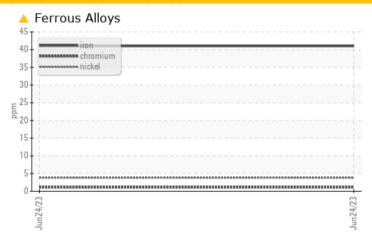
WEAR

WOLVO VNL 066 (S/N 4V4NC9EH5LN230726)

Diesel Engine

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Nickel ppm ASTM D5185m >2 4 -- --

Customer Id: TVAPLAIL
Sample No.: PCA0097516
Lab Number: 05887367
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
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RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

VOLVO VNL 066 (S/N 4V4NC9EH5LN230726)

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Exhaust valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

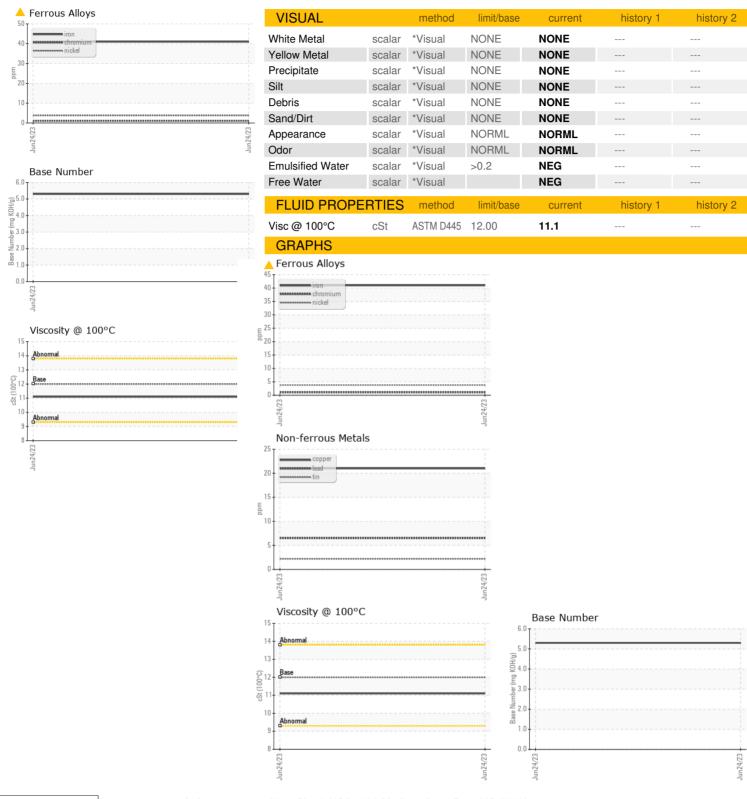
Fluid Condition

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

GAL)						
CAMPLE INCOR	MATION			Jun2023	111	1
SAMPLE INFOR	VIATION		limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097516		
Sample Date		Client Info		24 Jun 2023		
Machine Age	mls	Client Info		548000		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>6.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	41		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	<u>4</u>		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	21		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	67		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	996		
Calcium	ppm	ASTM D5185m	1050	1151		
Phosphorus	ppm	ASTM D5185m	995	1030		
Zinc	ppm	ASTM D5185m	1180	1347		
Sulfur	ppm	ASTM D5185m	2600	2947		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	12.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9		
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2		
Base Number (BN)	1/011/	ASTM D2896		5.3		



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: PCA0097516 : 05887367 : 10537850 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Jun 2023 Diagnosed : 05 Jul 2023

: Sean Felton Diagnostician

13915 W ROUTE 30 PLAINFIELD, IL US 60544 Contact: JOSHUA HUBBARD joshua@tvarepairllc.com

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