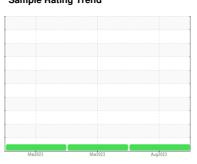


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2126914**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

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.

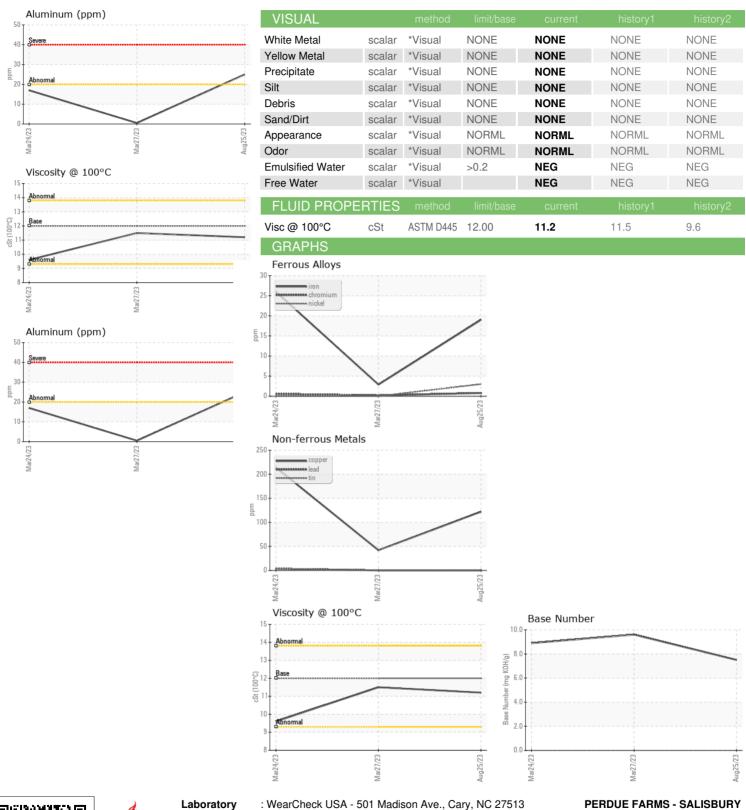
Fluid Condition

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

QIS)		Ma	Mw2023 Mw2023 Aug2023			
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088731	PCA0099514	PCA0076932
Sample Date		Client Info		25 Aug 2023	27 Mar 2023	24 Mar 2023
Machine Age	mls	Client Info		0	40000	18646
Oil Age	mls	Client Info		0	20000	40000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>100	19	3	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	3	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	25	<1	17
Lead	ppm	ASTM D5185m	>40	0	0	4
Copper	ppm	ASTM D5185m	>330	122	42	214
Tin	ppm	ASTM D5185m	>15	<1	<1	4
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	6	284
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	65	58	118
Manganese	ppm	ASTM D5185m	0	<1	<1	4
Magnesium	ppm	ASTM D5185m	950	977	990	657
Calcium	ppm	ASTM D5185m	1050	1144	1072	1465
Phosphorus	ppm	ASTM D5185m	995	1014	1053	640
Zinc	ppm	ASTM D5185m	1180	1261	1277	786
Sulfur	ppm	ASTM D5185m	2600	3356	3846	2286
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	41
Sodium	ppm	ASTM D5185m		3	<1	6
Potassium	ppm	ASTM D5185m	>20	66	5	49
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.3	4.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	17.7	23.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.0	20.6
Base Number (BN)	mg KOH/g			7.5	9.6	8.9
	99					



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: 05940569

: PCA0088731 : 10631181

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 01 Sep 2023 Received : 01 Sep 2023 Diagnosed

: Wes Davis Diagnostician

7036 ZION CHURCH ROAD SALISBURY, MD

Contact: RICHARD O'NEAL richard.oneal@perdue.com

T: (410)543-3628 F: (410)341-2164

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) US 21802