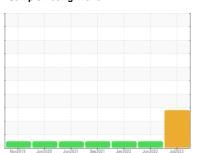


OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



309548

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

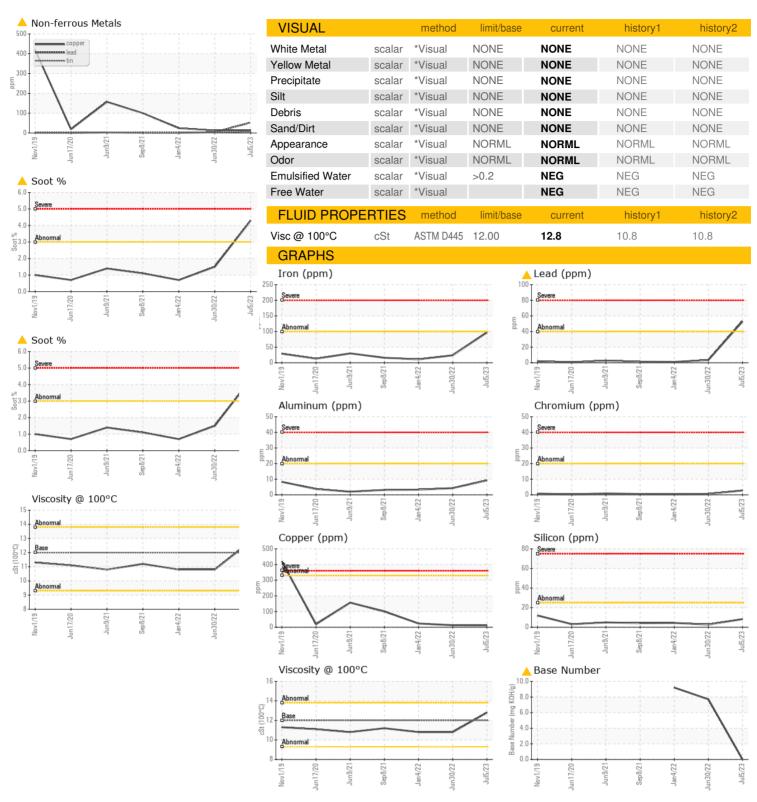
Fluid Condition

The BN level is low.

Nov2019 Jun2020 Jun2021 Sup2021 Jun2022 Jun2023						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100753	PCA0073234	PCA0064112
Sample Date		Client Info		05 Jul 2023	30 Jun 2022	04 Jan 2022
Machine Age	mls	Client Info		116105	88197	74009
Oil Age	mls	Client Info		116105	14188	9000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	97	24	11
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		11	3	4
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	9	4	3
Lead	ppm	ASTM D5185m	>40	△ 53	4	1
Copper	ppm	ASTM D5185m	>330	12	13	24
Tin	ppm	ASTM D5185m	>15	6	2	1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	0	6
Barium	ppm	ASTM D5185m	0	0	4	0
Molybdenum	ppm	ASTM D5185m	50	60	60	57
Manganese	ppm	ASTM D5185m	0	3	1	<1
Magnesium	ppm	ASTM D5185m	950	904	787	912
Calcium	ppm	ASTM D5185m	1050	1492	1196	1193
Phosphorus	ppm	ASTM D5185m	995	1079	823	1070
Zinc	ppm	ASTM D5185m	1180	1341	1158	1223
Sulfur	ppm	ASTM D5185m	2600	3578	3397	2833
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	3	4
Sodium	ppm	ASTM D5185m		19	10	4
Potassium	ppm	ASTM D5185m	>20	6	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	4.3	1.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	23.1	13.4	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	40.6	25.2	21.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.6	20.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 0.0	7.7	9.2



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: 10564398

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0100753 : 05903042

Received Diagnosed

: 20 Jul 2023 : 21 Jul 2023 Diagnostician : Don Baldridge

Test Package : MOB 1 (Additional Tests: TBN) 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)

MILLER TRUCK LEASING #118

2196 BENNETT ROAD PHILADELPHIA, PA US 19116

Contact: ROSTY VITER rviter@millertransgroup.com T: (215)552-9832

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