

OIL ANALYSIS REPORT

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Sample Rating Trend

NORMAL



Machine Id
705598
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

There is no indication of any contamination in the oil.

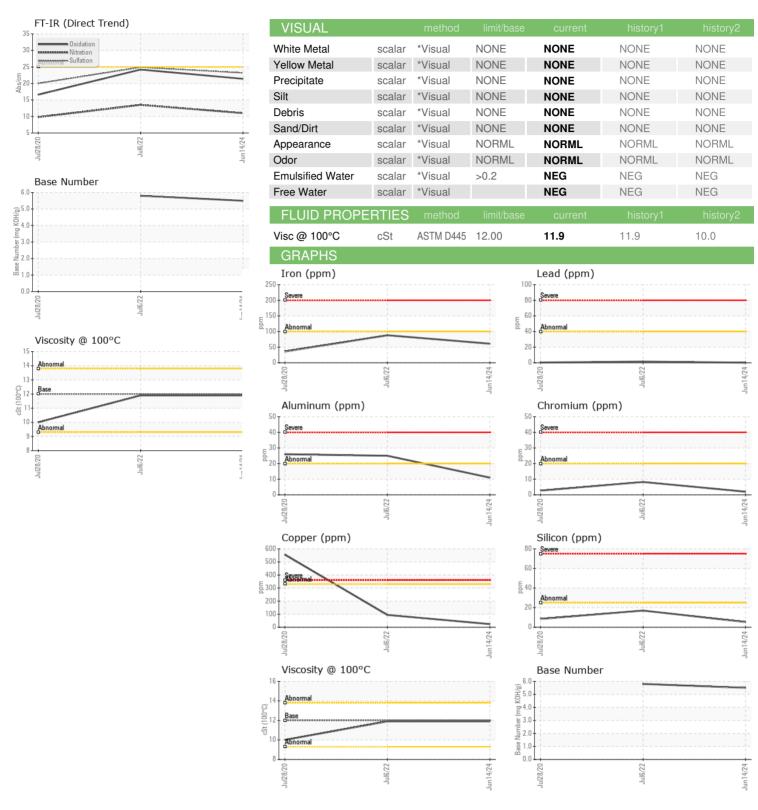
Fluid Condition

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

Dil Age m Dil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Tron pr Chromium pr Nickel pr Titanium pr Aluminum pr Lead pr Copper pr Tin pr Antimony pr Vanadium pr Cadmium pr Molybdenum pr Molybdenum pr Manganese pr Magnesium pr Calcium pr Phosphorus pr Sulfur pr Sulfur pr CONTAMINANTS Silicon pr Sodium pr	oppm Hoppm H	method Client Info Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >5 >0.2 limit/base >100 >20 >4	current PCA0121074 14 Jun 2024 0 0 Changed NORMAL current <1.0 NEG NEG current 61	history1 PCA0075999 06 Jul 2022 97732 33650 Changed NORMAL history1 <1.0 NEG NEG history1 88	history2 PCA0027013 28 Jul 2020 11366 11000 Changed ABNORMAL history2 <1.0 NEG NEG history2
Sample Date Machine Age m Oil Age m Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron pr Chromium pr Nickel pr Titanium pr Lead pr Copper pr Tin pr Antimony pr Vanadium pr Cadmium pr Manganese	ppm /	Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	14 Jun 2024 0 0 Changed NORMAL current <1.0 NEG NEG current 61	06 Jul 2022 97732 33650 Changed NORMAL history1 <1.0 NEG NEG	28 Jul 2020 11366 11000 Changed ABNORMAL history2 <1.0 NEG NEG
Machine Age m Oil Age m Oil Age m Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron pr Chromium pr Nickel pr Titanium pr Lead pr Copper pr Tin pr Antimony pr Vanadium pr Cadmium pr Manganese pr Manganese pr Magnesium pr Calcium pr Phosphorus pr Sulfur pr Sulfur pr CONTAMINANTS Silicon pr Sodium pr	ppm /	Client Info Client Info Client Info Client Info method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	0 0 Changed NORMAL current <1.0 NEG NEG current 61	97732 33650 Changed NORMAL history1 <1.0 NEG NEG history1	11366 11000 Changed ABNORMAL history2 <1.0 NEG NEG
Dil Age m Dil Changed Gample Status CONTAMINATION Fuel Water Glycol WEAR METALS ron pr Chromium pr Nickel pr Chromium pr Nickel pr Chromium pr Aluminum pr Lead pr Copper Fin pr Antimony pr Vanadium pr Cadmium pr Dadmium pr Dadmium pr Dadmium pr Calcium pr Manganese pr Manganese pr Manganese pr Manganese pr Calcium pr Contaminants	ppm /	Client Info Client Info method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	0 Changed NORMAL current <1.0 NEG NEG current 61	33650 Changed NORMAL history1 <1.0 NEG NEG history1	11000 Changed ABNORMAL history2 <1.0 NEG NEG
CONTAMINATION Fuel Vater Glycol WEAR METALS ron pr Chromium pr Silver pr Aluminum pr Lead pr Copper pr In Antimony pr Janadium pr Jana	ppm /	method WC Method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	Changed NORMAL current <1.0 NEG NEG current 61	Changed NORMAL history1 <1.0 NEG NEG history1	Changed ABNORMAL history2 <1.0 NEG NEG
CONTAMINATION Fuel Water Glycol WEAR METALS ron pr Chromium pr Silver pr Aluminum pr Lead pr Copper pr Fin pr Antimony pr Janadium pr Jana	ppm /	method WC Method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	current <1.0 NEG NEG current 61	NORMAL history1 <1.0 NEG NEG history1	ABNORMAL history2 <1.0 NEG NEG
CONTAMINATION Fuel Water Glycol WEAR METALS ron pr Chromium pr Nickel pr Gliver pr Aluminum pr Lead pr Copper pr Antimony pr Vanadium pr Cadmium pr Cadmi	ppm /	WC Method WC Method WC Method method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	current <1.0 NEG NEG Current 61	history1 <1.0 NEG NEG history1	history2 <1.0 NEG NEG
Fuel Water Glycol WEAR METALS ron pr Chromium pr Silver pr Aluminum pr Lead pr Copper pr Fin pr Antimony pr Janadium pr Cadmium pr Manganese pr Manganese pr Manganese pr Manganese pr Colored pr Colored pr Calcium pr Contaminants	ppm /	WC Method WC Method WC Method method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >0.2 limit/base >100 >20	<1.0 NEG NEG current	<1.0 NEG NEG history1	<1.0 NEG NEG
Water Glycol WEAR METALS ron pr Chromium pr Slickel pr Glycor pr Aluminum pr Lead pr Copper pr Antimony pr Vanadium pr Cadmium pr Calcium pr Contaminants	opm A opm A opm A opm A	WC Method WC Method method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 limit/base >100 >20	NEG NEG current	NEG NEG history1	NEG NEG
Glycol WEAR METALS ron pr Chromium pr Nickel pr Silver pr Aluminum pr Lead pr Copper pr Chrimony pr Antimony pr Andium pr Cadmium pr Cadmium pr Cadmium pr Cadmium pr Cadmium pr Cadmium pr Calcium	opm A opm A opm A opm A	WC Method method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100 >20	NEG current 61	NEG history1	NEG
WEAR METALS ron pr Chromium pr Silver pr Aluminum pr Lead pr Copper pr In pr Antimony pr Antimony pr Andium pr Cadmium pr Barium pr Manganese pr Manganese pr Manganese pr Calcium pr Contaminants	ppm # ppm # ppm # ppm #	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20	current 61	history1	
ron processor pr	opm // opm // opm // opm //	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20	61		history2
Chromium process of the contraction process of t	opm // opm // opm // opm //	ASTM D5185m ASTM D5185m ASTM D5185m	>20		88	
Nickel properties of the prope	opm /	ASTM D5185m ASTM D5185m			00	36
Fitanium properties of the pro	opm /	ASTM D5185m	>4	2	8	3
Silver properties of the prope	ppm /			<1	<1	<1
Aluminum process proce		ASTM D5185m		<1	<1	0
Lead processed p	pm /		>3	<1	<1	<1
Copper profile control of the contro		ASTM D5185m	>20	11	25	26
Antimony properties of the pro	ppm /	ASTM D5185m	>40	<1	2	<1
Antimony properties of the contraction of the contr		ASTM D5185m	>330	24	94	<u></u> 555
Vanadium proceedings of the contramination process of the contrami	ppm /	ASTM D5185m	>15	1	4	4
ADDITIVES Boron properties of the properties of	ppm /	ASTM D5185m				0
ADDITIVES Boron properties of the properties of	ppm /	ASTM D5185m		<1	0	0
Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Cinc pp Contaminants Contaminants Contaminants Contaminants Contaminants Contaminants		ASTM D5185m		<1	0	0
Barium proposed propo		method	limit/base	current	history1	history2
Molybdenum pr Manganese pr Magnesium pr Calcium pr Phosphorus pr Sulfur pr CONTAMINANTS Silicon pr Godium pr	ppm /	ASTM D5185m	2	4	5	54
Manganese production of the contraction of the cont	ppm /	ASTM D5185m	0	<1	0	0
Magnesium pp Calcium pp Phosphorus pp Zinc pp Culfur pp CONTAMINANTS Silicon pp Codium pp	ppm /	ASTM D5185m	50	72	61	8
Calcium pr Phosphorus pr Zinc pr Sulfur pr CONTAMINANTS Silicon pr Sodium pr	ppm /	ASTM D5185m	0	<1	2	3
Phosphorus pr Zinc pr Sulfur pr CONTAMINANTS Silicon pr Sodium pr	ppm /	ASTM D5185m	950	904	967	652
Zinc pr Sulfur pr CONTAMINANTS Silicon pr Sodium pr	ppm /	ASTM D5185m	1050	1256	1201	1402
Sulfur pr CONTAMINANTS Silicon pr Sodium pr	ppm /	ASTM D5185m	995	1002	942	683
CONTAMINANTS Silicon pr	ppm /	ASTM D5185m	1180	1256	1216	718
Silicon pr Sodium pr	ppm /	ASTM D5185m	2600	2257	2511	3233
Sodium pr	S	method	limit/base	current	history1	history2
11	ppm /	ASTM D5185m	>25	5	17	8
	ppm /	ASTM D5185m		<1	5	6
Potassium pp	ppm /	ASTM D5185m	>20	19	48	51
INFRA-RED		method	limit/base	current	history1	history2
Soot % %		*ASTM D7844	>3	0.7	0.8	0.2
Nitration Ab	·/ ₆ *	*ASTM D7624	>20	11.0	13.5	9.8
		*ASTM D7415	>30	23.2	24.9	20
FLUID DEGRADAT	Abs/cm *		limit/base	current	history1	history2
Oxidation Abs	Abs/cm *	method	>25	21.4	24.2	16.6
Base Number (BN) mg	Abs/cm * Abs/.1mm *	method *ASTM D7414				



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number

: 06225985 Unique Number : 11109478

: PCA0121074

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

: 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis

: 02 Jul 2024

Test Package : MOB 1 (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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 #114

63 REPAUPO STATION ROAD LOGAN TOWNSHIP, NJ US 08085

Contact: ED DAVIS edavis@millertransgroup.com

T: (856)214-3521 F: (856)214-3663 Contact/Location: ED DAVIS - MILLOG