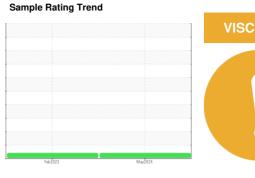


OIL ANALYSIS REPORT

(944-378) Walgreens - Tractor [Walgreens - Tractor] 136G41500

Gasoline Engine

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



VISCOSITY

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION Sample Number Sample Date Machine Age mls Oil Age Oil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Vanadium ppm Manganese ppm Manganese ppm Magnesium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Fuel % INFRA-RED	Client Info Client Info Client Info Client Info Client Info Client Info WC Metho WC Metho WC Metho ASTM D5185 ASTM D5185	limit/base	WC06194854 29 May 2024 0 0 N/A ATTENTION Current NEG NEG	history1 PCA0091794 14 Feb 2023 82855 1818 Changed ATTENTION history1 NEG NEG	history2
Sample Date Machine Age mls Oil Age mls Oil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Manganese ppm Manganese ppm Calcium ppm Phosphorus ppm Silicon ppm Sodium ppm CONTAMINANTS Silicon ppm Sodium ppm Sodium ppm Sodium ppm Sodium ppm Sodium ppm Sodium ppm Fuel %	Client Info Client Info Client Info Client Info Client Info WC Metho WC Metho WC Metho ASTM D5185 ASTM D5185	limit/base	29 May 2024 0 0 N/A ATTENTION Current NEG NEG	14 Feb 2023 82855 1818 Changed ATTENTION history1 NEG	 history2
Machine Age mls Oil Age Oil Age Oil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm CONTAMINANTS Silicon ppm Sodium ppm Sodium ppm Sodium ppm Sodium ppm Sodium ppm Fuel %	Client Info Client Info Client Info Client Info WC Metho WC Metho WC Metho ASTM D5185 ASTM D5185	limit/base	0 0 N/A ATTENTION current NEG NEG	82855 1818 Changed ATTENTION history1 NEG	 history2
Dil Age mls Dil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Nickel ppm Aluminum ppm Lead ppm Cadmium ppm Vanadium ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm CONTAMINANTS Silicon ppm Sodium ppm Sodium ppm Sodium ppm CONTAMINANTS Silicon ppm Sodium ppm Fotassium ppm Fotassium ppm Fotassium ppm Sodium ppm Sodium ppm Fotassium ppm Sodium ppm Fotassium ppm Fotassium ppm Sodium ppm Fotassium ppm	Client Info Client Info Client Info Method WC Metho WC Method MASTM D5185 ASTM D5185 ASTM D5185	limit/base	0 0 N/A ATTENTION current NEG NEG	1818 Changed ATTENTION history1 NEG	 history2
Oil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Silver ppm Aluminum ppm Lead ppm Cadmium ppm Vanadium ppm Vanadium ppm Wanadium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Contaminants Contaminants Contaminants Contaminants	method WC Metho WC Method Method Mathod Math	limit/base	N/A ATTENTION current NEG NEG	Changed ATTENTION history1 NEG	history2
Dil Changed Sample Status CONTAMINATION Water Glycol WEAR METALS ron ppm Chromium ppm Nickel ppm Silver ppm Aluminum ppm Jead ppm Vanadium ppm Vanadium ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Contaminants Contaminants Contaminants Contaminants Contaminants Contaminants	method WC Metho WC Metho method ASTM D5185 ASTM D5185	limit/base d >0.2 d	N/A ATTENTION current NEG NEG	ATTENTION history1 NEG	history2
CONTAMINATION Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Cadmium ppm Vanadium ppm Vanadium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Magnesium ppm Calcium ppm	WC Metho WC Metho method ASTM D5185 ASTM D5185 ASTM D5185	d >0.2 d limit/base	current NEG NEG	ATTENTION history1 NEG	history2
Water Glycol WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Vanadium ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Contaminan ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Contaminan ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Sodium ppm Fuel %	WC Metho WC Metho method ASTM D5185 ASTM D5185 ASTM D5185	d >0.2 d limit/base	NEG NEG	NEG	
WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Contaminum ppm Contaminum ppm Manganese ppm Magnesium ppm Coloium ppm Contaminum ppm Contaminum ppm Coloium ppm Contaminum pp	WC Method method ASTM D5185 ASTM D5185 ASTM D5185	d limit/base	NEG		
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ron ppm Chromium ppm Chromium ppm Nickel ppm Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Vanadium ppm Vanadium ppm Cadmium ppm Madpanese ppm Magnesium ppm Calcium ppm Contaminants Contam	ASTM D5185 ASTM D5185 ASTM D5185			1420	
Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Vanadium ppm Vanadium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Sodium ppm CONTAMINANTS Silicon ppm Sodium ppm Sodium ppm Sodium ppm Contassium ppm	ASTM D5185	m >150	e current	history1	history2
Nickel ppm Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Cotassium ppm	ASTM D5185		6	5	
Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Vanadium ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm		m >20	<1	<1	
Silver ppm Aluminum ppm Lead ppm Copper ppm Vanadium ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Contaminants Silicon ppm Contaminants Silicon ppm Contassium ppm Cotassium ppm Cotassium ppm Cotassium ppm Cotassium ppm Cotassium ppm Cotassium ppm	AOTH DE (OF	m >5	0	0	
Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Contaminants Sulfur ppm Contaminants Silicon ppm Sodium ppm Sodium ppm Fotassium ppm Fotassium ppm	ASTM D5185	m	<1	0	
Lead ppm Copper ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Contaminants Silicon ppm Fotassium ppm Cotassium ppm Contaminants Silicon ppm Sodium ppm Fotassium ppm Fotassium ppm	ASTM D5185	m >2	<1	0	
Copper ppm Tin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Contaminants Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m >40	3	1	
Tin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Calcium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Sodium ppm Fotassium ppm Fotassium ppm	ASTM D5185	m >50	2	0	
Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Calcium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Sodium ppm Fotassium ppm Fotassium ppm	ASTM D5185	m >155	7	9	
ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Contaminants Silicon ppm Sodium ppm Fotassium ppm Contassium ppm	ASTM D5185	m >10	<1	0	
ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Phosphorus ppm Contaminants Silicon ppm Sodium ppm Cotassium ppm Fotassium ppm	ASTM D5185	m	<1	0	
Boron ppm Barium ppm Molybdenum ppm Manganese ppm Calcium ppm Phosphorus ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m	<1	0	
Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	method	limit/base	e current	history1	history2
Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 2	24	82	
Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 0	<1	<1	
Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 50	224	37	
Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 0	1	1	
Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 950	466	319	
Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 1050	1373	1071	
CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 995	662	547	
CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 1180	777	678	
Silicon ppm Sodium ppm Potassium ppm Fuel %	ASTM D5185	m 2600	2377	2539	
Sodium ppm Potassium ppm Fuel % INFRA-RED	method	limit/base	e current	history1	history2
Potassium ppm Fuel % INFRA-RED	ASTM D5185	m >30	17	8	
Fuel % INFRA-RED	ASTM D5185	m >400	2	2	
INFRA-RED	ASTM D5185	m >20	1	2	
	ASTM D352	4 >4.0	<1.0	1.2	
Poot 9/	7.01111 2002	limit/base	e current	history1	history2
Soot % %	method	4	0	0.1	
Nitration Abs/		.4 >20	10.3	9.1	
Sulfation Abs/.1	method *ASTM D784	5 >30	21.0	20.2	
FLUID DEGRADATION	method *ASTM D784 cm *ASTM D762		e current	history1	history2
Oxidation Abs/.1	*ASTM D762 mm *ASTM D762	limit/base			
Base Number (BN) mg KO	method *ASTM D784 cm *ASTM D762 mm *ASTM D741 method	limit/base	15.4	11.4	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Unique Number : 11056977

: WC06194854 Lab Number : 06194854

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

: 29 May 2024 : 31 May 2024

Diagnosed : 31 May 2024 - Jonathan Hester

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

ckercado@transervice.com T: (787)946-3435 F: (787)946-3434

Contact: Carlos Kercado

Calle Abeto 45, Reparto Solano

Transervice - Shop 1368 - Berkeley-Cataño

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: TSV1368 [WUSCAR] 06194854 (Generated: 05/31/2024 20:18:27) Rev: 1

Submitted By: Carlos Kercado

Caguas, PR US 00725