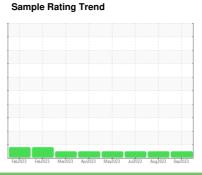


OIL ANALYSIS REPORT

(TEMP) Walgreens - Yard Horse [Walgreens - Yard Horse] 136A81258

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

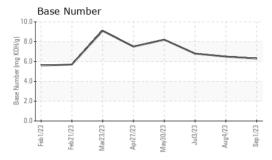
Fluid Condition

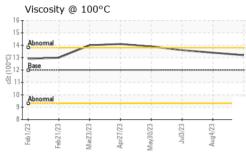
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091541	PCA0091550	PCA0091519
Sample Date		Client Info		01 Sep 2023	04 Aug 2023	03 Jul 2023
Machine Age	hrs	Client Info		4792	4647	4501
Oil Age	hrs	Client Info		200	200	200
Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	65	52	39
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	2	2	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	3	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 2	history1 0	history2 0
	ppm					
Boron		ASTM D5185m	2	2	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	2	0	0
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	2 0 57	0 0 58	0 0 59
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	2 0 57 1	0 0 58 <1	0 0 59 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	2 0 57 1 928	0 0 58 <1 907	0 0 59 <1 836
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	2 0 57 1 928 1015	0 0 58 <1 907 1002	0 0 59 <1 836 1004
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	2 0 57 1 928 1015 965	0 0 58 <1 907 1002 927	0 0 59 <1 836 1004 958
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	2 0 57 1 928 1015 965 1234	0 0 58 <1 907 1002 927 1209	0 0 59 <1 836 1004 958 1151
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	2 0 57 1 928 1015 965 1234 3554	0 0 58 <1 907 1002 927 1209 3416	0 0 59 <1 836 1004 958 1151 2945
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	2 0 57 1 928 1015 965 1234 3554 current	0 0 58 <1 907 1002 927 1209 3416 history1	0 0 59 <1 836 1004 958 1151 2945 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	2 0 57 1 928 1015 965 1234 3554 current	0 0 58 <1 907 1002 927 1209 3416 history1	0 0 59 <1 836 1004 958 1151 2945 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	2 0 57 1 928 1015 965 1234 3554 current 6	0 0 58 <1 907 1002 927 1209 3416 history1 4	0 0 59 <1 836 1004 958 1151 2945 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	2 0 57 1 928 1015 965 1234 3554 current 6 2	0 0 58 <1 907 1002 927 1209 3416 history1 4 2	0 0 59 <1 836 1004 958 1151 2945 history2 4 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	2 0 57 1 928 1015 965 1234 3554 current 6 2 2	0 0 58 <1 907 1002 927 1209 3416 history1 4 2 0 history1	0 0 59 <1 836 1004 958 1151 2945 history2 4 0 1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	2 0 57 1 928 1015 965 1234 3554 current 6 2 2	0 0 58 <1 907 1002 927 1209 3416 history1 4 2 0 history1 1	0 0 59 <1 836 1004 958 1151 2945 history2 4 0 1 history2 0.8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	2 0 57 1 928 1015 965 1234 3554 current 6 2 2 current 1.1	0 0 58 <1 907 1002 927 1209 3416 history1 4 2 0 history1 1 11.0	0 0 59 <1 836 1004 958 1151 2945 history2 4 0 1 history2 0.8 9.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30	2 0 57 1 928 1015 965 1234 3554 current 6 2 2 2 current 1.1 11.1 21.6	0 0 58 <1 907 1002 927 1209 3416 history1 4 2 0 history1 1 11.0 21.7	0 0 59 <1 836 1004 958 1151 2945 history2 4 0 1 history2 0.8 9.9 20.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30 limit/base	2 0 57 1 928 1015 965 1234 3554 current 6 2 2 current 1.1 11.1 21.6 current	0 0 58 <1 907 1002 927 1209 3416 history1 4 2 0 history1 1 11.0 21.7 history1	0 0 59 <1 836 1004 958 1151 2945 history2 4 0 1 history2 0.8 9.9 20.9



OIL ANALYSIS REPORT

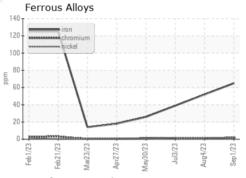




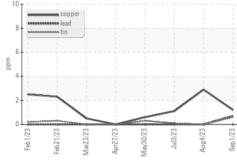
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROP	ERITES	method	ilmii/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	13.2	13.4	13.6

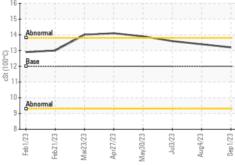
GRAPHS

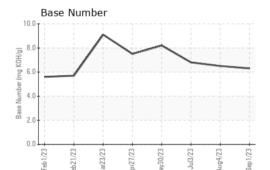
















Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10646608

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0091541 : 05950649

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

Received Diagnosed Diagnostician : Wes Davis

: 13 Sep 2023 : 15 Sep 2023

Transervice - Shop 1361 - Berkeley-Windsor

4400 State Road 19 Windsor, WI US 53598

F: (608)846-0389

Contact: Mike Hurda mhurda@transervice.com T: (608)846-2726

* - 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)