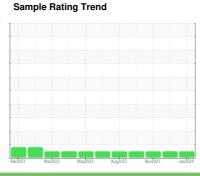


OIL ANALYSIS REPORT

(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

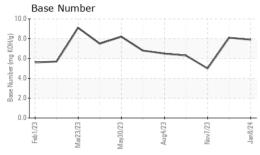
Fluid Condition

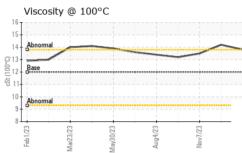
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105872	PCA0105924	PCA0105914
Sample Date		Client Info		08 Jan 2024	07 Dec 2023	07 Nov 2023
Machine Age	hrs	Client Info		5550	5373	5162
Oil Age	hrs	Client Info		200	211	200
Oil Changed		Client Info		Oil Added	Oil Added	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	18	87
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	2	<1
Titanium	ppm	ASTM D5185m	•	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		3	3	8
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		<1	<1	2
Tin	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	mag	method ASTM D5185m	limit/base			
	ppm	ASTM D5185m		0	history1 2 0	history2 0 0
Boron Barium	ppm	ASTM D5185m	2		2	0
Boron	ppm ppm	ASTM D5185m ASTM D5185m	2 0 50	0 0	2	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	0 0 52	2 0 59	0 0 58
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	0 0 52 0	2 0 59 <1	0 0 58
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	0 0 52 0 923	2 0 59 <1 1106	0 0 58 1 875
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	0 0 52 0 923 944	2 0 59 <1 1106 1150	0 0 58 1 875 1026
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm 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	0 0 52 0 923 944 990	2 0 59 <1 1106 1150 1191	0 0 58 1 875 1026 939
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	0 0 52 0 923 944 990	2 0 59 <1 1106 1150 1191 1462	0 0 58 1 875 1026 939 1168
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	0 0 52 0 923 944 990 1206 2987	2 0 59 <1 1106 1150 1191 1462 3594	0 0 58 1 875 1026 939 1168 2232
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	0 0 52 0 923 944 990 1206 2987	2 0 59 <1 1106 1150 1191 1462 3594 history1	0 0 58 1 875 1026 939 1168 2232 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	0 0 52 0 923 944 990 1206 2987 current	2 0 59 <1 1106 1150 1191 1462 3594 history1	0 0 58 1 875 1026 939 1168 2232 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	0 0 52 0 923 944 990 1206 2987 current 3	2 0 59 <1 1106 1150 1191 1462 3594 history1 4	0 0 58 1 875 1026 939 1168 2232 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	0 0 52 0 923 944 990 1206 2987 current 3 1	2 0 59 <1 1106 1150 1191 1462 3594 history1 4	0 0 58 1 875 1026 939 1168 2232 history2 9 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	0 0 52 0 923 944 990 1206 2987 current 3 1 2	2 0 59 <1 1106 1150 1191 1462 3594 history1 4 4	0 0 58 1 875 1026 939 1168 2232 history2 9 3 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method *ASTM D5185m 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	0 0 52 0 923 944 990 1206 2987 current 3 1 2	2 0 59 <1 1106 1150 1191 1462 3594 history1 4 4 history1 0.4	0 0 58 1 875 1026 939 1168 2232 history2 9 3 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm 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	0 0 52 0 923 944 990 1206 2987 current 3 1 2 current 0.5 8.4	2 0 59 <1 1106 1150 1191 1462 3594 history1 4 4 4 7.4	0 0 58 1 875 1026 939 1168 2232 history2 9 3 <1 history2 1.5 13.8
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 METHOD *ASTM D5185m 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	0 0 52 0 923 944 990 1206 2987 current 3 1 2 current 0.5 8.4 18.3	2 0 59 <1 1106 1150 1191 1462 3594 history1 4 4 4 7.4 18.8 history1	0 0 58 1 875 1026 939 1168 2232 history2 9 3 <1 history2 1.5 13.8 26.0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm 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	0 0 52 0 923 944 990 1206 2987 current 3 1 2 current 0.5 8.4 18.3	2 0 59 <1 1106 1150 1191 1462 3594 history1 4 4 4 history1 0.4 7.4 18.8	0 0 58 1 875 1026 939 1168 2232 history2 9 3 <1 history2 1.5 13.8 26.0



OIL ANALYSIS REPORT

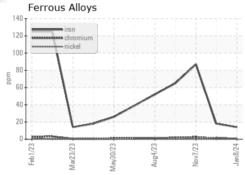


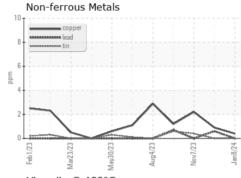


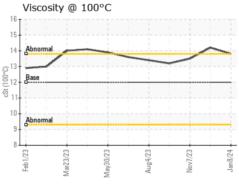
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

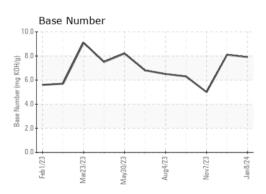
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	13.8	14.2	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10844154 Test Package : FLEET

: PCA0105872 : 06067477

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024 Diagnosed : 23 Jan 2024

Diagnostician : Wes Davis

Transervice - Shop 1361 - Berkeley-Windsor 4400 State Road 19 Windsor, WI

US 53598 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)

F: (608)846-0389