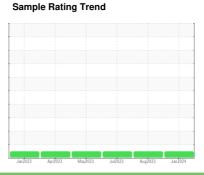


OIL ANALYSIS REPORT

(PKD6978) Walgreens - Yard Horse [Walgreens - Yard Horse] 136A89102

Diesel Engine

PETRO CANADA DURON SHP 10W30 (3 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

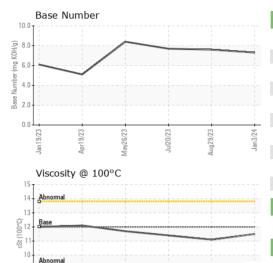
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111088	PCA0101908	PCA0101922
Sample Date		Client Info		03 Jan 2024	29 Aug 2023	20 Jul 2023
Machine Age	hrs	Client Info		15966	14836	19562
Oil Age	hrs	Client Info		400	400	650
Oil Changed		Client Info		Changed	Changed	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	21	18	23
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	- 1	<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm			2	1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm			<1	1	<1
Tin	ppm	ASTM D5185m		0	<1	<1
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
Cadmium		ASTM D5185m				0
Caumum	DUIII	AO HVI DO FOOIII		0	0	U
	ppm		limit/base	0 current		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	2	current 2	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	2	current 2 0	history1 6 0	history2 3 0
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	current 2 0 57	history1 6 0 59	history2 3 0 60
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	current 2 0 57 <1	history1 6 0 59 <1	history2 3 0 60 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	current 2 0 57 <1 966	history1 6 0 59 <1 896	history2 3 0 60 <1 952
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	current 2 0 57 <1 966 1086	history1 6 0 59 <1 896 1065	history2 3 0 60 <1 952 1103
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995	current 2 0 57 <1 966 1086 1043	history1 6 0 59 <1 896 1065 1031	history2 3 0 60 <1 952 1103 1008
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180	current 2 0 57 <1 966 1086 1043 1294	history1 6 0 59 <1 896 1065 1031 1228	history2 3 0 60 <1 952 1103 1008 1277
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	current 2 0 57 <1 966 1086 1043 1294 3037	history1 6 0 59 <1 896 1065 1031 1228 3592	history2 3 0 60 <1 952 1103 1008 1277 3604
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	current 2 0 57 <1 966 1086 1043 1294 3037 current	history1 6 0 59 <1 896 1065 1031 1228 3592 history1	history2 3 0 60 <1 952 1103 1008 1277 3604 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	current 2 0 57 <1 966 1086 1043 1294 3037 current	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 4	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1
ADDITIVES 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	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 0 current	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2
ADDITIVES 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	method ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0 current 1.5	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1 1.2	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0 current 1.5 10.5	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1 1.2 9.4	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2 1.5 10.2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0 current 1.5	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1 1.2 9.4 20.6	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2 1.5 10.2 20.8
ADDITIVES 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	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0 current 1.5 10.5 21.7 current	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1 1.2 9.4	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2 1.5 10.2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30	current 2 0 57 <1 966 1086 1043 1294 3037 current 2 2 0 current 1.5 10.5 21.7	history1 6 0 59 <1 896 1065 1031 1228 3592 history1 4 1 history1 1.2 9.4 20.6	history2 3 0 60 <1 952 1103 1008 1277 3604 history2 5 1 <1 history2 1.5 10.2 20.8



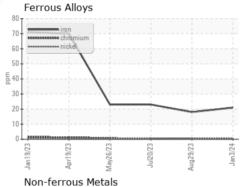
OIL ANALYSIS REPORT

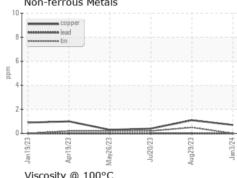


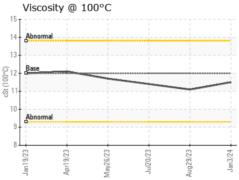
			limit/base	current	history1	history2
White Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Yellow Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Precipitate so	calar '	*Visual	NONE	NONE	NONE	NONE
Silt	calar '	*Visual	NONE	NONE	NONE	NONE
Debris so	calar '	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt so	calar '	*Visual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

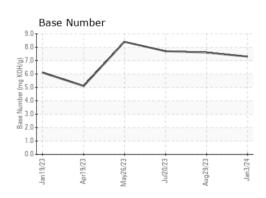
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.1	11.4

GRAPHS













Laboratory Sample No. Lab Number

Unique Number : 10845635 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0111088 : 06068958

Recieved : 23 Jan 2024 : 24 Jan 2024 Diagnosed

Diagnostician : Wes Davis

Certificate L2367 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)

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