

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 698055

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (44 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

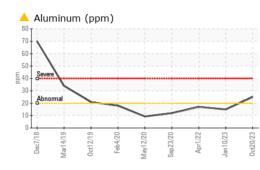
Fluid Condition

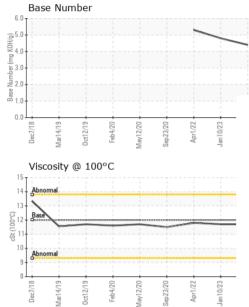
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105822	PCA0090040	PCA0068482
Sample Date		Client Info		20 Oct 2023	10 Jan 2023	01 Apr 2022
Machine Age	mls	Client Info		423673	358237	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	64	46	55
Chromium	ppm	ASTM D5185m	>20	4	3	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	15	17
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	11	9	10
Tin	ppm	ASTM D5185m	>15	<1	1	1
	1-1-1-		-			
Antimony	maa	ASTM D5185m				
•	ppm ppm	ASTM D5185m ASTM D5185m				
Vanadium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		 0 0	 0 0	 0 0
Vanadium Cadmium		ASTM D5185m ASTM D5185m	limit/base	0 0	0 0	0
Vanadium Cadmium ADDITIVES	ppm ppm	ASTM D5185m ASTM D5185m method	limit/base	0 0 current	0 0 history1	0 0 history2
Vanadium Cadmium ADDITIVES Boron	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	2	0 0 current 4	0 0 history1 1	0 0 history2 3
Vanadium Cadmium ADDITIVES Boron Barium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	2 0	0 0 current 4 0	0 0 history1 1 0	0 0 history2 3 0
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	0 0 current 4 0 101	0 0 history1 1 0 77	0 0 history2 3 0 64
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	0 0 current 4 0 101 <1	0 0 history1 1 0 77 <1	0 0 history2 3 0 64 <1
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium	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	0 0 current 4 0 101 <1 1234	0 0 history1 1 0 77 <1 907	0 0 history2 3 0 64 <1 992
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm 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	0 0 current 4 0 101 <1 1234 1545	0 0 history1 1 0 77 <1 907 1118	0 0 history2 3 0 64 <1 992 1130
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm 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	0 0 current 4 0 101 <1 1234 1545 1310	0 0 history1 1 0 77 <1 907 1118 930	0 0 history2 3 0 64 <1 992 1130 1066
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm 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 current 4 0 101 <1 1234 1545 1310 1691	0 0 history1 1 0 77 <1 907 1118 930 1174	0 0 history2 3 0 64 <1 992 1130 1066 1305
Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm 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 ASTM D5185m	2 0 50 950 1050 995 1180 2600	0 0 current 4 0 101 <1 1234 1545 1310	0 0 history1 1 0 77 <1 907 1118 930 1174 2857	0 0 history2 3 0 64 <1 992 1130 1066 1305 2235
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Vanadium Cadmium ADDITIVES 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 ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25 >20	0 0 current 4 0 101 <1 1234 1545 1310 1691 3724 current 8 8 8 37	0 0 1 1 0 77 <1 907 1118 930 1174 2857 history1 5 8 8 47	0 0 history2 3 0 64 <1 992 1130 1066 1305 2235 history2 5 3 18
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Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm of pp	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3	0 0 current 4 0 101 <1 1234 1545 1310 1691 3724 current 8 8 8 37 current 1.8	0 0 1 1 0 77 <1 907 1118 930 1174 2857 history1 5 8 47 history1 1.8	0 0 history2 3 0 64 <1 992 1130 1066 1305 2235 history2 5 3 18 18 history2 1.5
Vanadium Cadmium 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	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25 .20 limit/base >3 >20	0 0 current 4 0 101 <1 1234 1545 1310 1691 3724 current 8 8 8 37 current 1.8 12.5	0 0 1 1 0 77 <1 907 1118 930 1174 2857 history1 5 8 47 5 8 47 history1 1.8 12.5	0 0 history2 3 0 64 <1 992 1130 1066 1305 2235 history2 5 3 18 history2 1.5 13.2
Vanadium Cadmium 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	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 .20 imit/base >3 >20 >30 imit/base	0 0 current 4 0 101 <1 1234 1545 1310 1691 3724 current 8 8 37 current 1.8 12.5 26.8	0 0 history1 1 0 77 <1 907 1118 930 1174 2857 history1 5 8 47 history1 1.8 12.5 26.3	0 0 history2 3 0 64 <1 992 1130 1066 1305 2235 history2 5 3 18 history2 1.5 1.5 13.2 27.2



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Laboratory

Sample No.

Lab Number Unique Number Test Package