

OIL ANALYSIS REPORT



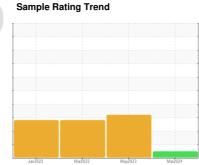
Off-Road
Machine Id
E453

Component

Hydraulic System

Fluid

PETRO CANADA DURATRAN (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

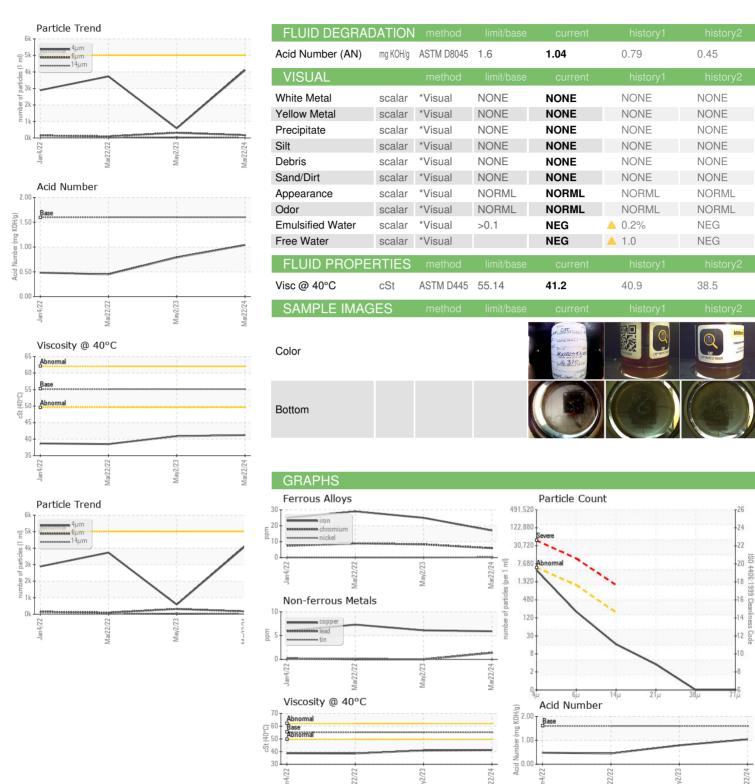
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Jac2022 May2023 May2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0090480	PCA0090823	PCA0066804
Sample Date		Client Info		22 Mar 2024	02 May 2023	22 Mar 2022
Machine Age	hrs	Client Info		11370	9395	6838
Oil Age	hrs	Client Info		11370	9395	6838
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	17	25	2 9
Chromium	ppm	ASTM D5185m	>10	6	8	9
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	4	3
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m	>75	6	6	7
Tin	ppm	ASTM D5185m	>10	1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		4	0	0
Cadimani	ppiii	AOTIVI DOTOSIII		<1	U	O
ADDITIVES	ррш	method	limit/base	current	history1	history2
	ppm		limit/base			
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	110	current 76	history1	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m	110 0.0 0.0	current 76 1	history1 33 0	history2 16 0
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	110 0.0 0.0	current 76 1 8	history1 33 0 5	history2 16 0 5
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	110 0.0 0.0 1	current 76 1 8 <1	history1 33 0 5 <1 46 1259	history2 16 0 5 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	110 0.0 0.0 1 13	current 76 1 8 <1 63	history1 33 0 5 <1 46	history2 16 0 5 <1 21
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	110 0.0 0.0 1 13 3610	current 76 1 8 <1 63 2537	history1 33 0 5 <1 46 1259	history2 16 0 5 <1 21 301 506 445
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192	current 76 1 8 <1 63 2537 903	history1 33 0 5 <1 46 1259 691	history2 16 0 5 <1 21 301 506
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455	current 76 1 8 <1 63 2537 903 1096	history1 33 0 5 <1 46 1259 691 778	history2 16 0 5 <1 21 301 506 445
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641	current 76 1 8 <1 63 2537 903 1096 2773	history1 33 0 5 <1 46 1259 691 778 1737	history2 16 0 5 <1 21 301 506 445 827
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base	current 76 1 8 <1 63 2537 903 1096 2773 current	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3	history2 16 0 5 <1 21 301 506 445 827 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base	current 76 1 8 <1 63 2537 903 1096 2773 current 15	history1 33 0 5 <1 46 1259 691 778 1737 history1 11	history2 16 0 5 <1 21 301 506 445 827 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3	history2 16 0 5 <1 21 301 506 445 827 history2 10 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 >20	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI	ppm	method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 limit/base >5000	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2 current	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm	method ASTM D5185m method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 limit/base >5000	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2 current 4108	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1 history1 583	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0 history2 3730 98 8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm	ppm	method ASTM D5185m method ASTM D5185m	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2 current 4108 170	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1 history1 583 317	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0 history2 3730 98
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2 current 4108 170 14	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1 history1 583 317 54	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0 history2 3730 98 8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm	ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	110 0.0 0.0 1 13 3610 1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	current 76 1 8 <1 63 2537 903 1096 2773 current 15 0 2 current 4108 170 14 3	history1 33 0 5 <1 46 1259 691 778 1737 history1 11 3 <1 history1 583 317 54 18	history2 16 0 5 <1 21 301 506 445 827 history2 10 4 0 history2 3730 98 8 2



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

: PCA0090480 Lab Number : 06129362

Unique Number: 10943513 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Mar 2024 **Tested**

: 27 Mar 2024 : 27 Mar 2024 - Wes Davis Diagnosed

WIN Waste Innovations - Shop # - Taunton

565 WINTHROP ST TAUNTON, MA US 02780

Contact: Dave Wilson dwilson@win-waste.com

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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F: