

## **OIL ANALYSIS REPORT**

Sample Rating Trend





N.E.R./Off-Road E-34

Component **Hydraulic System** 

## PETRO CANADA DURATRAN (--- GAL)

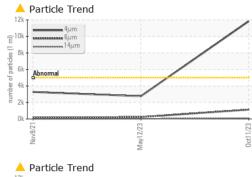
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PCA0104585	PCA0098557	PCA0059537
No corrective action is recommended at this time.	Sample Date		Client Info		11 Oct 2023	12 May 2023	09 Nov 2021
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		8403	7847	7460
Wear	Oil Age	hrs	Client Info		8403	7460	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ABNORMAL	NORMAL	NORMAL
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	WEAR METAL	S	method	limit/base	current	history1	history2
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Iron	ppm	ASTM D5185m	>20	7	9	11
	Chromium	ppm	ASTM D5185m	>10	<1	1	1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
	Lead	ppm	ASTM D5185m	>10	0	0	<1
	Copper	ppm	ASTM D5185m	>75	2	2	3
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	110	47	14	10
	Barium	ppm	ASTM D5185m	0.0	1	0	0
	Molybdenum	ppm	ASTM D5185m		5	5	5
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		55	50	24
	Calcium	ppm	ASTM D5185m		2048	1337	198
	Phosphorus	ppm	ASTM D5185m	1192	792	707	517
	Zinc	ppm	ASTM D5185m		972	898	659
	Sulfur	ppm	ASTM D5185m	2641	2460	2653	1340
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	8	4	2
	Sodium	ppm	ASTM D5185m		2	1	1
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<b>11826</b>	2756	3272
	Particles >6µm		ASTM D7647	>1300	1130	226	157
	Particles >14µm		ASTM D7647		89	23	7
	Particles >21µm		ASTM D7647		27	7	2
	Particles >38µm		ASTM D7647		2	1	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)			19/15/12	19/14/10
	FLUID DEGRAI			limit/base		history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.93	0.618	0.628
	ACIU NUITIDEL (AN)	ing NOR/g	7011VI D0043	1.0	0.93	0.010	0.020

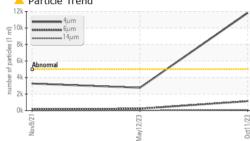


Acid Number

2 00

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Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)