

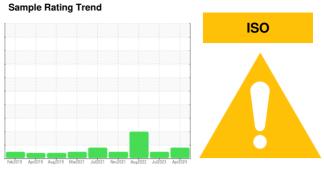
OIL ANALYSIS REPORT



G.LOPES CONSTRUCTION INC./Off-Road

Component Hydraulic System

PETRO CANADA DURATRAN (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

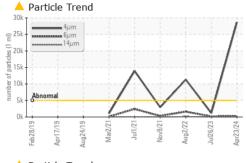
Fluid Condition

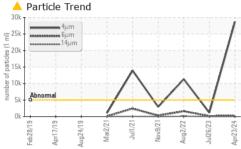
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

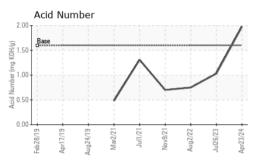
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122693	PCA0098413	PCA0071918
Sample Date		Client Info		23 Apr 2024	26 Jul 2023	02 Aug 2022
Machine Age	hrs	Client Info		11383	9537	8246
Oil Age	hrs	Client Info		6467	6085	6515
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	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	22	11	^ 26
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	3	3
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>75	2	2	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				
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	55	57	55
Barium	ppm	ASTM D5185m	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0.0	3	4	2
Manganese	ppm	ASTM D5185m	1	<1	0	<1
Magnesium	ppm	ASTM D5185m	13	32	42	31
Calcium	ppm	ASTM D5185m	3610	2432	2534	1499
Phosphorus		710 1111 20100111	0010	2432	2001	
i ilospilolus	ppm	ASTM D5185m	1192	970	999	837
•	ppm ppm					
Zinc		ASTM D5185m	1192	970	999	837
Zinc	ppm	ASTM D5185m ASTM D5185m	1192 1455	970 1177	999 1207	837 1043
Zinc Sulfur CONTAMINAN	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1192 1455 2641	970 1177 3262	999 1207 3046	837 1043 2514
Zinc Sulfur CONTAMINAN Silicon	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1192 1455 2641 limit/base	970 1177 3262 current	999 1207 3046 history1	837 1043 2514 history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm NTS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1192 1455 2641 limit/base	970 1177 3262 current	999 1207 3046 history1	837 1043 2514 history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1192 1455 2641 limit/base >20	970 1177 3262 current 10 3	999 1207 3046 history1 8	837 1043 2514 history2 10 2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1192 1455 2641 limit/base >20	970 1177 3262 current 10 3	999 1207 3046 history1 8 0 2	837 1043 2514 history2 10 2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m METhod	1192 1455 2641 limit/base >20 >20 limit/base >5000	970 1177 3262 current 10 3 0	999 1207 3046 history1 8 0 2 history1	837 1043 2514 history2 10 2 3 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1192 1455 2641 limit/base >20 >20 limit/base >5000	970 1177 3262 current 10 3 0 current 28679	999 1207 3046 history1 8 0 2 history1 1174	837 1043 2514 history2 10 2 3 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160	970 1177 3262 current 10 3 0 current 28679 240	999 1207 3046 history1 8 0 2 history1 1174 156	837 1043 2514 history2 10 2 3 history2 11329 1604
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >14µm Particles >21µm	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160	970 1177 3262 current 10 3 0 current 28679 240 3	999 1207 3046 history1 8 0 2 history1 1174 156 15	837 1043 2514 history2 10 2 3 history2 ▲ 11329 ■ 1604 102
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	1192 1455 2641 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	970 1177 3262 current 10 3 0 current 28679 240 3 1	999 1207 3046 history1 8 0 2 history1 1174 156 15 5	837 1043 2514 history2 10 2 3 history2 ▲ 11329 ● 1604 102 24

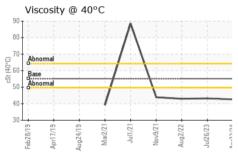


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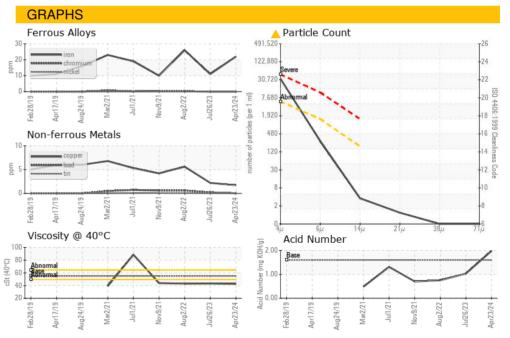






FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.98	1.03	0.75
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	42.6	43.2	43.0
SAMPLE IMAG	ES	method	limit/base	current	history1	history2

Color		Mitor Outer and August 1997 (1997) (241849157
Bottom			







Laboratory Sample No.

Lab Number : 06161400 Unique Number : 10996823

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0122693

Received : 26 Apr 2024 **Tested**

: 29 Apr 2024

Diagnosed : 29 Apr 2024 - Don Baldridge

Test Package : MOB 2 Certificate 12367 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)

G LOPES CONSTRUCTION

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