

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

WEST SIDE

Component Gearbox Fluid PETRO CANADA 220 (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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 INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0885527	WC0355849	
Sample Date		Client Info		10 Apr 2024	14 Aug 2019	
Machine Age	nrs	Client Info		0	0	
Oil Age	nrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
lron p	opm	ASTM D5185m	>200	23	61	
	opm	ASTM D5185m	>10	0	<1	
	opm	ASTM D5185m	>10	0	0	
	opm	ASTM D5185m		0	0	
	opm	ASTM D5185m		0	<1	
	opm	ASTM D5185m	>25	0	5	
	opm	ASTM D5185m	>50	0	<1	
	opm	ASTM D5185m	>200	0	<1	
	opm	ASTM D5185m	>10	0	0	
	opm	ASTM D5185m			0	
, , ,	opm	ASTM D5185m	20	0	0	
	opm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
			iiiiii/base			Thistory2
	opm	ASTM D5185m		0	4	
	opm	ASTM D5185m		0	0	
	opm	ASTM D5185m		0	0	
Manganese p	opm	ASTM D5185m		0	<1	
Magnesium p	opm	ASTM D5185m		0	<1	
Calcium p	opm	ASTM D5185m		2	158	
Phosphorus p	opm	ASTM D5185m		141	147	
Zinc p	opm	ASTM D5185m		1	4	
Sulfur p	opm	ASTM D5185m		687	674	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>50	6	22	
Sodium p	opm	ASTM D5185m		5	29	
Potassium p	opm	ASTM D5185m	>20	7	12	
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		143305	4141	
Particles >6µm		ASTM D7647	>1300	A 90545	<u> </u>	
Particles >14µm		ASTM D7647	>160	4738	A 384	
Particles >21µm		ASTM D7647	>40	<u> </u>	1 29	
Particles >38µm		ASTM D7647	>10	6	2 0	
Particles >71µm		ASTM D7647		0	2	
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Oil Cleanliness

▲ 19/18/16

ISO 4406 (c) >--/17/14 **4 24/24/19**



OIL ANALYSIS REPORT

Particle Trend	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
140k 4μm 120k μm 120k 14μm	Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.268	
100k	VISUAL		method	limit/base	current	history1	history2
80k	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
60k 40k	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
20k	Precipitate	scalar	*Visual	NONE	NONE	NONE	
		scalar	*Visual	NONE	NONE	NONE	
Aug 14/19	520 Silt Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Particle Trend	Appearance	scalar	*Visual	NORML	NORML	NORML	
140k - 4µm	Odor	scalar	*Visual	NORML	NORML	NORML	
120k	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
100k	Free Water	scalar	*Visual		NEG	NEG	
60k 40k	FLUID PROPER	RTIES	method	limit/base	current	history1	history2
20k	Visc @ 40°C	cSt	ASTM D445		205	222	
Aug 14/1 guA	SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
Acid Number	Color						no image
0.36	Bottom					A	no image
0.00	GRAPHS						
Aug 14/19	Ferrous Alloys				Particle Count		
Аис				491,520	1		T ²⁶
Viscosity @ 40°C	60 - chromium			122,880			-24
Abnormal	20-			30,720			-22
230		******	*********************			\	-20
220	Aug 14/19			Apr10/24.			-20 -18 -16 -14
210				- CE	1	. /	TIO
	Non-ferrous Met	als			1		-16
200 Abnormal	copper			jo agu 120	-	/	-14
190 -	ξ			ē 30	-		-12
Aug14/19	A10			8	Serenal		10
~4.	0 Ц			24			
	ug14/			Apr10/24			
	⊲ Viscosity @ 40°C			- O	4μ 6μ	14µ 21µ	38µ 71µ
	240 Abnormal			₽0.60	Acid Number		
	730+			(¹⁰)H0, 60 (¹⁰)H0, 90 (¹⁰			
	ु 220 सु 220 सु 210			<u>ш</u> 0.40			
	200 - Abnormal) -		
	190 - P			Acid Acid			4
	Aug14/1			Apr10/24	Aug14/19		Anr10/24
	Aı			A	Au		4
TESTING LABORATORY Unique I		Recei Teste Diagr	ived : 17 id : 18 nosed : 19	, NC 27513 7 Apr 2024 8 Apr 2024 Apr 2024 - Don		Rochelle 1001 South Ma Contact: JAMES	Rochelle, II US 61068

Contact/Location: JAMES ROBINSON III - ROCROCUS