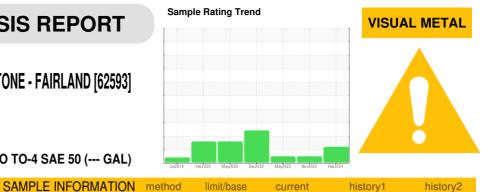


OIL ANALYSIS REPORT



current

history1

history2



KEMP QUARRIES / KEMP STONE - FAIRLAND [62593] **OHT100** Component

Rear Right Final Drive Fluid

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS Recommendation

We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid. Overfilled and had material on magnets)

A Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

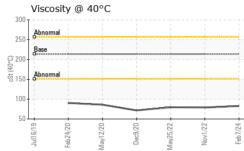
The oil viscosity is lower than normal. Confirm oil type.

SAMIFLE INFUN		methou	IIIIII/Dase	current	TIIStOLA	TIStory2
Sample Number		Client Info		PCA0086496	PCA0070254	PCA0061946
Sample Date		Client Info		07 Feb 2024	01 Nov 2022	25 May 2022
Machine Age	hrs	Client Info		6938	6511	6073
Oil Age	hrs	Client Info		6938	6073	6073
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
	0			-		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	36	61	55
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>75	<1	1	1
Lead	ppm	ASTM D5185m	>10	2	4	4
Copper	ppm	ASTM D5185m	>75	8	15	16
Tin	ppm	ASTM D5185m	>8	<1	1	<1
Antimony	ppm	ASTM D5185m	>50			
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	2	<1	1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	8	13	12
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	142	184	170
Calcium	ppm	ASTM D5185m	3114	921	1469	1524
Phosphorus	ppm	ASTM D5185m	1099	634	731	699
Zinc	ppm	ASTM D5185m	1245	779	881	885
Sulfur	ppm	ASTM D5185m	7086	2198	3092	2678
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	5	5	4
Sodium	ppm	ASTM D5185m		<1	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE		MODER	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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	20.L	NEG	NEG	Sublence By:
I ICC Walel	Scalai	visual		NLG	NLG	Scialification Dy.

limit/base



OIL ANALYSIS REPORT



Visc @ 40°C SAMPLE Color Bottom GRAPHS Iron (ppm)	May1220	cSt ES	ASTM		213.9 limit/ba	30 25 20 4 15 - 10 - 5 - 0	82.8 current no image no image Lead (ppn Severe Abnormal Chromium Severe	May1220	78.9 history no image		79.5 histo no imag	ge
Color Bottom GRAPHS Iron (ppm)	May1220					30 25 20 5 0 15 0 15 0 15 0 10 5 0 1 25 0 20 0 10 10 10 10 10 10 10 10 10 10 10 10	no image no image Lead (ppn Severe Chromium	May1220	no image		no ima	ge
GRAPHS Iron (ppm)		Dec3/20		Nav1/22	Feb7/24	30 - 25 - 20 - Med 15 - 10 - 5 - 0 - 30 - 25 - 20 - Med 15 -	no image	May1220	no image		no ima	ge
GRAPHS Iron (ppm) Severe Abnomal OZ V72 rej Aluminum (i Severe		Dec3/20	May25/22	Nov1/22-	Feb7/24	30 - 25 - 20 - Med 15 - 10 - 5 - 0 - 30 - 25 - 20 - Med 15 -	Lead (ppn Severe bonomal 61/91107 Chromium Severe	May1220	Dec3/20			
Iron (ppm)		Dec3/20	Maq25/22	Nav1/22	Feb7/24	30 - 25 - 20 - Med 15 - 10 - 5 - 0 - 30 - 25 - 20 - Med 15 -	Abnormal 02/b2qb4 Chromium	May12/20		May25/22	Nav1/22	
Abnormal		Dec3/20	May25/22	Nav1/22-	Feb.7/24	30 - 25 - 20 - Med 15 - 10 - 5 - 0 - 30 - 25 - 20 - Med 15 -	Abnormal 02/b2qb4 Chromium	May12/20		May25/22	Nov1/22	
Abnormal		Dec9/20	May25/22	Nov1/22	Feb1/24	20 - <u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	Abnormal 			May25/22 -	Nov1/22	
Aluminum (Dec9/20	May25/22	Nov1/22	Feb7/24	8 15 - 10 - 5 - 0 - 25 - 20 - 8 - 8 -	02/b2/qb4			May25/22 -	Nov1/22 - /	
Aluminum (Dec9/20	May25/22	Nov1/22	Feb7/24	10 - 5 - 0 - 25 - 20 - Щ 15 -	02/b2/qb4			May25/22	Nav1/22 + 1	
Aluminum (Dec9/20	May25/22	Nov1/22+	Feb7/24	30 - 25 - 20 - E. 15 -	Chromium Severe			May25/22	Nov1/22	
Aluminum (Dec9/20	May25/22	Nav1/22	Feb7/24	30 - 25 - 20 - 튼. 15 -	Chromium Severe			May25/22	Vov1/22	
Aluminum (Ma	2		30 - 25 - 20 - 트 15 -	Chromium Severe			Ma	-	
Abnormal						30 - 25 - 20 - Ed 15 -	Severe					
						20 - 톱 15 -						
							Abnormal					
						101						
						5 -						
/19	/20	//20	- 123	/22	Feb7/24	0					/22	_
Jul16/19 Feb24/20	May12/20	Dec9/20	May25/22	Nov1/22	Feb		Jul16/19 Feb24/20	May12/20	Dec9/20	May25/22	Nov1/22	
Copper (ppr	n)					¹⁰⁰⁰ T	Silicon (pp	m)				
Severe			I I I		1	800-	Severe					
						600 -	Abnormal					
Abnormal	_					400-	Q					
		-			-	0						
Jul16/19 eb24/20	ay12/20	Dec9/20	ay25/22	Nov1/22	Feb7/24		Jul16/19 eb24/20	ay12/20	Dec9/20	ay25/22	Nov1/22	
_			Z				Additives	M		M		
Abnormal					, - I I	1600 1400				F	-	
Base						1200-	zinc	phorus		1		1
Abnormal						19.752P		Allenne	\backslash			-
		_				600-			V	CONCERNMENT OF THE OWNER	REPERSION OF STREET	and the second
6/19	2/20	9/20	5/22	1/22	1/24	400	6/19	2/20+	9/20	5/22 -	1/22 -	
Jul1 Feb2	May1.	Dec	May2!	Nov	Feb		Jull Feb2	May1.	Dec	May2!	Nov	
CA0086496 088417 0875862 OB 1		Rec Test Diag	eived ed jnosed	: 13 : 14 : 15	Feb 202 Feb 202 Feb 2024	24 24		ıp Quarı		183	50 S 59 Fairlanc US 7 Con	0 F 1, C 434 tac
	Abnormal Base Abnormal Control Base Abnormal Base Control Base Base Control Base Base Base Base Base Base Base Base	Viscosity @ 40°C Abnormal Base Abnormal Carcheck USA - 501 CA0086496 088417 875862 DB 1 tact Customer Service putside of the ISO 17	Viscosity @ 40°C	Viscosity @ 40°C	Viscosity @ 40°C	Viscosity @ 40°C	Base 000000000000000000000000000000000000	Viscosity @ 40°C Additives Viscosity @ 40°C Additives Additive	Viscosity @ 40°C Additives Addi	Viscosity @ 40°C Additives Addi	Viscosity @ 40°C Additives Addi	Viscosity @ 40°C Additives Addi

