

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



## Area Scoop 6 Yard LHD6104 Component

Hydraulic System

## PETRO CANADA DURATRAN (166 LTR)

DIAGNOSIS	

Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

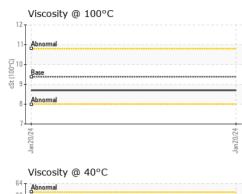
The condition of the oil is acceptable for the time in service.

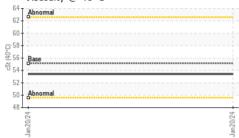
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0051196		
Sample Date		Client Info		20 Jan 2024		
Machine Age	hrs	Client Info		3370		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	5		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	2		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>75	1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	110	88		
Barium	ppm	ASTM D5185(m)	0.0	0		
Molybdenum	ppm	ASTM D5185(m)	0.0	0		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	13	17		
Calcium	ppm	ASTM D5185(m)	3610	3477		
Phosphorus	ppm	ASTM D5185(m)	1192	1082		
Zinc	ppm	ASTM D5185(m)	1455	1347		
Sulfur	ppm	ASTM D5185(m)	2641	2869		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	10		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



# **OIL ANALYSIS REPORT**

VISUAL





	VICOAL		mounou		ourront		instory z
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
Jan20/24	Appearance	scalar	Visual*	NORML	NORML		
Jan 2	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPE	BTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	55.14	53.4		
		cSt					
	Visc @ 100°C		ASTM D7279(m)	9.38	8.7		
	Viscosity Index (VI)	Scale	ASTM D2270*	153	139		
	SAMPLE IMAC	GES	method	limit/base	current	history1	history2
Jan20/24							
7	Color					no image	no image
	00101					nonnage	no inage
	Bottom					no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
					<sup>40</sup> Т.		
	E 20 - Abnormal				20 - Abnormal		
	Jan 20, 24			Jan20/24	Jan 20/24		
					Chromium (n		
	Aluminum (ppm)				Chromium (pp	, 	
	E 20 Abnormal			E 2	20 Severe		
	Abnormal				Abnormal		
	lam20/24			Jan20/24	lan 20/24		
	- P			el.	- <u>10</u>		
	Copper (ppm)				Silicon (ppm)		
	400 T Savara						
	E 200 - Abnormal	,		udd	50 - Abnormal		
	0 25			A/24	27 L 0		
	Jan 20/			Jan 20/	Jan 20		
	Viscosity @ 40°C				Additives		
	80			400	00 calcium 1		
				<u></u> 200	00 - nannananan phosphorus		
	40 4			- 54			
	Jan 20,7			Jan20/	Jan 20		
	and the second s						
	2 2						
boratory	: WearCheck - C8-117				L 5H9 La	keshore Gold	Timmins We
mple No.	: WearCheck - C8-117 : PC0051196	Rece	ived : 09	Feb 2024	"L 5H9 <b>La</b>	keshore Gold	
mple No. b Number	: WearCheck - C8-117	Recei Teste	ived : 09 ed : 09			keshore Gold	<b>Timmins We</b> Timmins, C C <i>F</i>



Accredited Laboratory Test Package : MOB 1 (Additional Tests: KV100, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131. darseneau@ca.panamericansilver.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017

T: (705)269-4344

F: