

WEAR MARGINAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

Haul Truck Machine Id HT5024 Component Rear Differential

PETRO CANADA TRAXON 85W140 (59 LTR)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Light concentration of visible metal present. Gear wear is indicated.

CONTAMINATION

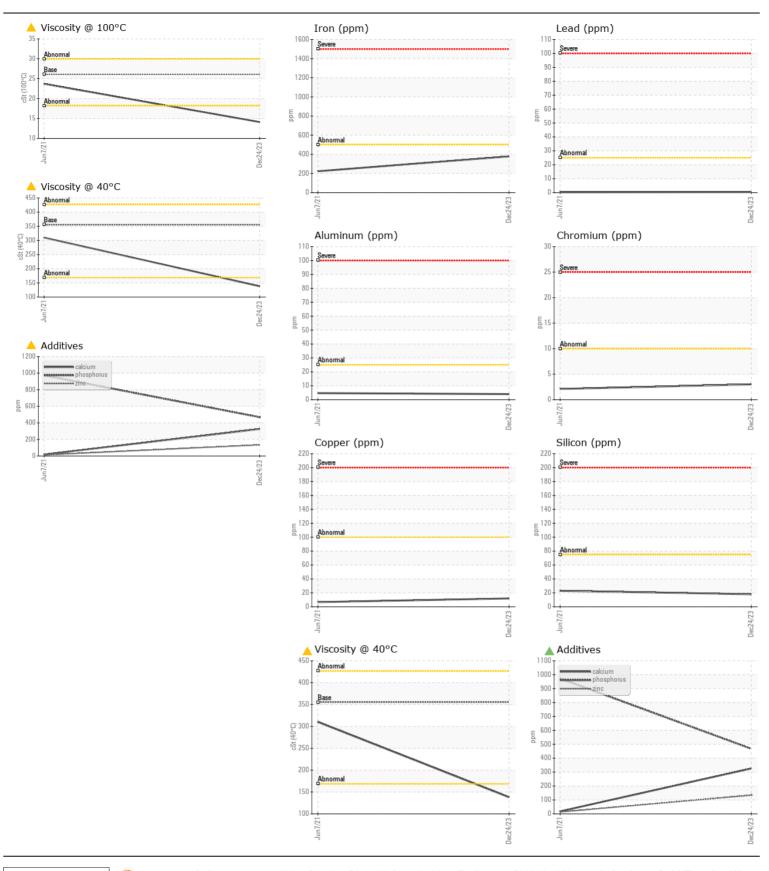
There is no indication of any contamination in the oil.

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Test	UOM	Method	Limit/Abn	-	urrent	History1	History2
Sample Number		Client Info			20074941	PC0047130	
Sample Date		Client Info		24	Dec 2023	07 Jun 2021	
Machine Age	hrs	Client Info		99	972	0	
Oil Age	hrs	Client Info		0		0	
Filter Age	hrs	Client Info		0		0	
Oil Changed		Client Info		N/	Ά	N/A	
Filter Changed		Client Info		N/	Ά	N/A	
Sample Status				AE	BNORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>500		378	223	
Chromium	ppm	ASTM D5185(m)	>10		3	2	
Nickel	ppm	ASTM D5185(m)	>10		2	- 1	
Titanium	ppm	ASTM D5185(m)	10		0	<1	
Silver	ppm	ASTM D5185(m)			0	<1	
Aluminum	ppm	ASTM D5185(m)	>25		4	5	
Lead	ppm	ASTM D5185(m)	>25		+ <1	<1	
Copper	ppm	ASTM D5185(m)	>100		12	7	
Tin		ASTM D5185(m)	>10		0	0	
Vanadium	ppm	ASTM D5185(m)	>10		0	0	
White Metal	ppm scalar	Visual*	NONE			LTMOD	
Yellow Metal	scalar	Visual*	NONE		NONE	NONE	
	Scalal	visuai				NONL	
Silicon	ppm	ASTM D5185(m)	>75		18	23	
Potassium	ppm	ASTM D5185(m)	>20		9	17	
Water		WC Method	>.2		NEG	NEG	
Silt	scalar	Visual*	NONE		LIGHT	VLITE	
Debris	scalar	Visual*	NONE		NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE		NONE	NONE	
Appearance	scalar	Visual*	NORML		NORML	NORML	
Odor	scalar	Visual*	NORML		NORML	NORML	
Emulsified Water	scalar	Visual*	>.2		NEG	NEG	
Sodium	ppm	ASTM D5185(m)			3	6	
Boron	ppm	ASTM D5185(m)	243		13	218	
Barium	ppm	ASTM D5185(m)	0		0	6	
Molybdenum	ppm	ASTM D5185(m)			0	<1	
Manganese	ppm	ASTM D5185(m)			3	2	
Magnesium	ppm	ASTM D5185(m)	0		2	<1	
Calcium	ppm	ASTM D5185(m)	0		326	18	
Phosphorus	ppm	ASTM D5185(m)	988		468	973	
Zinc	ppm	ASTM D5185(m)	0		134	13	
Sulfur	ppm	ASTM D5185(m)	24530		10633	21933	
Visc @ 40°C	cSt	ASTM D7279(m)	355.4		138	310	
Visc @ 100°C	cSt	ASTM D7279(m)	26.1		14.1	23.7	
Viscosity Index (VI)	Scale	ASTM D2270*	97		99	96	
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FLUID CONDITION

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Submitted By: Luc Belanger



Lakeshore Gold Timmins West Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Recieved : PC0074941 : 11 Jan 2024 Lab Number : 02608265 Timmins, ON Diagnosed : 14 Jan 2024 ISO 17025:2017 Diagnostician : Kevin Marson Accredited : 5709351 **Unique Number** CA Laboratory Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, VI) Contact: Dale Arseneau To discuss this sample report, contact Customer Service at 1-800-268-2131. darseneau@ca.panamericansilver.com T: (705)269-4344 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.