



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
PRESS 2 SLUDGE (S/N 8190D)
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 68 (--- GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample. Diagnostician's Note: The sludge is actually heavily oxidized oil and some iron wear debris. Recommend that you inspect the system for any hot spots (stuck valves, spools, etc.).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0796125	---	---
Sample Date		Client Info		11 Apr 2024	---	---
Machine Age	mths	Client Info		24	---	---
Oil Age	mths	Client Info		0	---	---
Filter Age	mths	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Iron ppm levels are abnormal.

PQ		ASTM D8184*		300	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 188	---	---
Chromium	ppm	ASTM D5185(m)	>20	4	---	---
Nickel	ppm	ASTM D5185(m)	>20	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	1	---	---
Lead	ppm	ASTM D5185(m)	>20	2	---	---
Copper	ppm	ASTM D5185(m)	>20	5	---	---
Tin	ppm	ASTM D5185(m)	>20	7	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

{not applicable}

Silicon	ppm	ASTM D5185(m)	>15	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water		WC Method	>0.05	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---

FLUID CONDITION

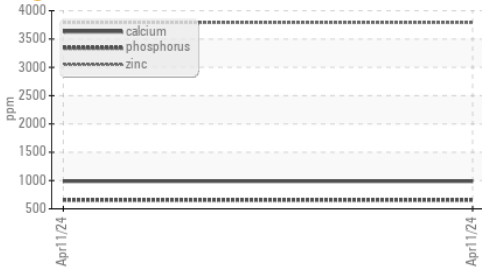
Calcium ppm levels are notably high. Sulfur ppm levels are notably high. Zinc ppm levels are notably high.

Sodium	ppm	ASTM D5185(m)		10	---	---
Boron	ppm	ASTM D5185(m)	0	2	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	1	---	---
Magnesium	ppm	ASTM D5185(m)	0	4	---	---
Calcium	ppm	ASTM D5185(m)	50	● 987	---	---
Phosphorus	ppm	ASTM D5185(m)	330	656	---	---
Zinc	ppm	ASTM D5185(m)	430	● 3790	---	---
Sulfur	ppm	ASTM D5185(m)	760	● 3542	---	---

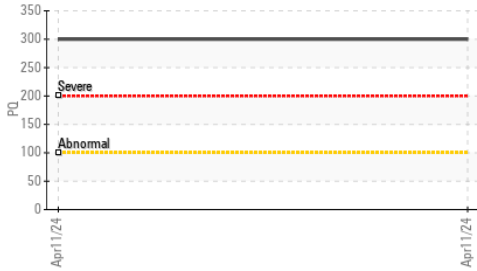
▲ Ferrous Alloys



● Additives



PQ



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0796125
Lab Number : 02629815
Unique Number : 5762947
Test Package : TEST (Additional Tests: ICP, PQ)

SPECTRA ALUMINUM PRODUCTS INC.
 95 REAGENS INDUSTRIAL PKWY
 BRADFORD, ON
 CA L3Z 2A4
 Contact: Farzad Shik
 fshik@spectraaluminum.com as
 T:
 F: (905)778-8054

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 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.