

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# KRAUS MOTOR A-4 (S/N 61025348)

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

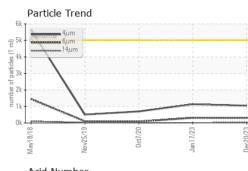
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

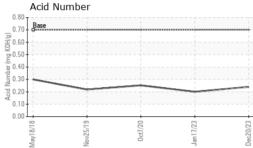
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0075240	PCA0058245	PCA0027742
Sample Date		Client Info		20 Dec 2023	17 Jan 2023	07 Oct 2020
Machine Age	hrs	Client Info		40623	35676	22743
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	1	2	1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				0
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	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	1	2	1
Calcium	ppm	ASTM D5185m	50	58	56	52
Phosphorus	ppm	ASTM D5185m	330	350	341	325
Zinc	ppm	ASTM D5185m	430	444	432	430
Sulfur	ppm	ASTM D5185m	760	1170	1109	965
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	13	3	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEAN	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1048	1134	702
Particles >6µm		ASTM D7647	>1300	311	314	84
Particles >14µm		ASTM D7647	>160	24	14	8
Particles >21µm		ASTM D7647	>40	6	4	3
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/15/11	17/14/10
FLUID DEGRA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.24	0.20	0.252
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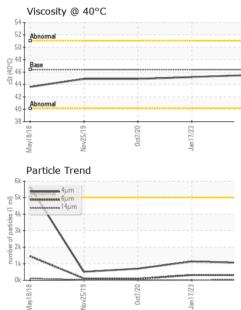
Contact/Location: ERIC DANIEL - ARKAUBAL



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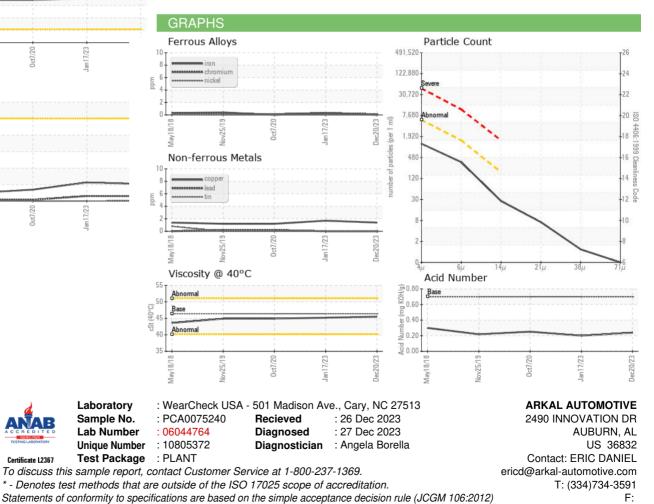






VISUAL NONE NONE White Metal \*Visual NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate scalar \*Visual NONE NONE NONE NONE Silt scalar \*Visual NONE NONE NONE NONE NONE Debris \*Visual NONE NONE NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance scalar \*Visual NORML NORML NORML Odor \*Visual NORML NORML NORML NORML scalar **Emulsified Water** scalar \*Visual >0.05 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG **FLUID PROPERTIES** 45.2 Visc @ 40°C cSt ASTM D445 46.4 45.5 44.9 SAMPLE IMAGES Color

Bottom



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