

OIL ANALYSIS REPORT

Sample Rating Trend



KRAUSS MAFFEI A-5 (S/N 61028881)

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.

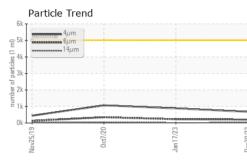
Fluid Condition

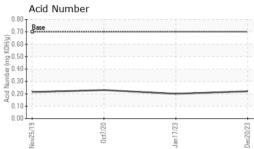
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

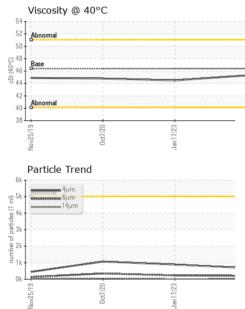
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info	inningbabb	PCA0075241	PCA0058244	PCA0027738
Sample Date		Client Info		20 Dec 2023	17 Jan 2023	07 Oct 2020
Machine Age	hrs	Client Info		33058	27993	13670
Oil Age	hrs	Client Info		0	0	0
-	1115	Client Info		0 Filtered	0 N/A	Filtered
Oil Changed		Client inio		NORMAL	NORMAL	NORMAL
Sample Status				-		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	<1
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	0
Copper	ppm	ASTM D5185m	>20	2	2	2
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
Barium		ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	<1	<1
Molybdenum Manganese	ppm	ASTM D5185m		0	0	0
•	ppm		0	3	2	3
Magnesium	ppm	ASTM D5185m			57	3 54
Calcium	ppm	ASTM D5185m	50	56		
Phosphorus	ppm	ASTM D5185m	330	349	338	328
Zinc	ppm	ASTM D5185m	430	429	432	430
Sulfur	ppm	ASTM D5185m	760	1228	1092	1040
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	3	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m		<1	<1	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	677	884	1068
Particles >6µm		ASTM D7647	>1300	208	227	347
Particles >14µm		ASTM D7647	>160	22	14	41
Particles >21µm		ASTM D7647	>40	6	5	9
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/15/11	17/16/13
FLUID DEGRAD)ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.22	0.20	0.230
			5.7 0	V	0.20	0.200



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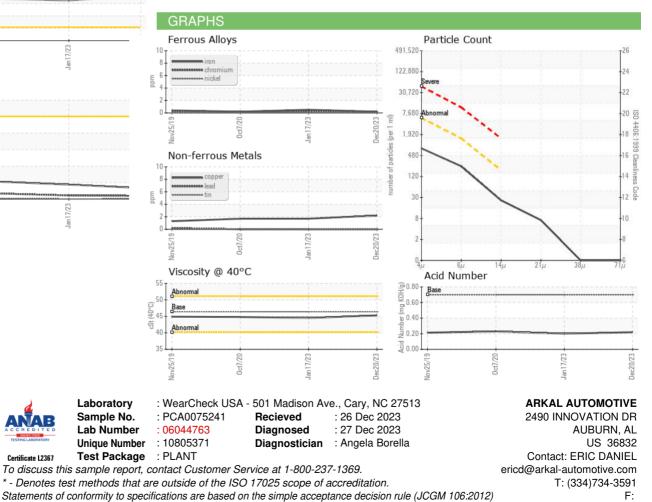






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	45.3	44.5	44.8
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						
				(~)		

Bottom



Contact/Location: ERIC DANIEL - ARKAUBAL