

OIL ANALYSIS REPORT

Sample Rating Trend



W11 (S/N 31037) Component

Hydraulic System MIL-PRF-83282 (--- GAL)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

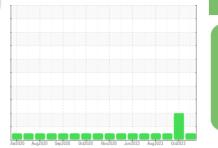
All component wear rates are normal.

Contamination

Discrete particle counts [100 ml] 5-15µm = 15400, $15-25\mu m = 1400, 25-50\mu m = 500, 50-100\mu m = 0,$ $>100\mu m = 0$. The amount and size of particulates present in the system are acceptable. Chlorine is 15.8 ppm.

Fluid Condition

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





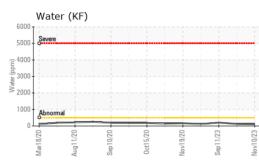
		اد مالد مد	Provide Review		la facta a surat	la la tana 0
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874929	WC0768907	WC0768885
Sample Date		Client Info		10 Nov 2023	12 Oct 2023	11 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m		1	0	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	11	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		747	716	690
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		29	29	28
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	4	4
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Chlorine Content	ppm	ASTM D5185m		15.8	10.2	
Water	%	ASTM D6304	>0.05	0.011	▲ 0.012	0.020
ppm Water	ppm	ASTM D6304	>500	113	▲ 123.7	206.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	491	293	356
Particles >6µm		ASTM D7647	>1300	173	106	154
Particles >14µm		ASTM D7647	>160	19	23	23
Particles >21µm		ASTM D7647	>40	5	<u> </u>	6
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	15/14/12	16/14/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	0.29	0.166	0.20

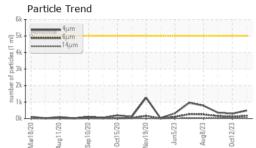
Report Id: NORPLAMA [WUSCAR] 06030095 (Generated: 12/13/2023 14:55:01) Rev: 1

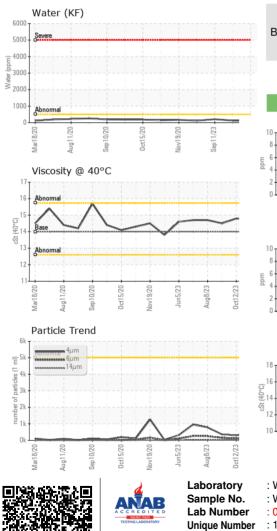
Contact/Location: JIM ALLEN - NORPLAMA



OIL ANALYSIS REPORT



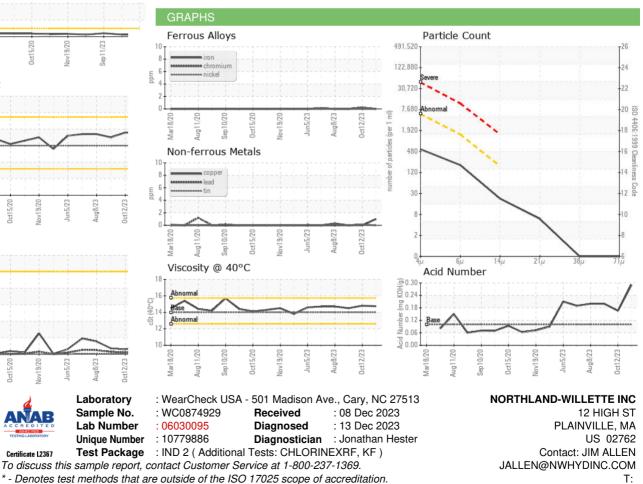




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	14.0	14.74	14.8	14.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a.		



Bottom



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (508)699-4017

Report Id: NORPLAMA [WUSCAR] 06030095 (Generated: 12/13/2023 14:55:01) Rev: 1

Certificate L2367