

OIL ANALYSIS REPORT

Area **UNION Grey Water Pump-58033A** Component

Pump Fluid

DIESEL ENGINE OIL SAE 30 (16 QTS)

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 Rating Trend



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SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0771989	WC0771959	WC0469448
Sample Date		Client Info		02 Jan 2024	02 Jul 2023	03 Sep 2022
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	ABNORMAL	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	30	17	32
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>3	108	102	93
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	<1	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	49	28	37
Tin	ppm	ASTM D5185m	>9	6	4	7
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	165	202	180
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	742	690	672
Calcium	ppm	ASTM D5185m	3000	1426	1370	1306
Phosphorus	ppm	ASTM D5185m	1150	931	1073	1011
Zinc	ppm	ASTM D5185m	1350	1194	1163	1122
Sulfur	ppm	ASTM D5185m	4250	3792	3918	3650
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	5	5
Sodium	ppm	ASTM D5185m	>75	0	0	3
Potassium	ppm	ASTM D5185m	>20	4	3	1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2221	🔺 11352	▲ 7462
Particles >6µm		ASTM D7647	>1300	133	1 452	628
Particles >14µm		ASTM D7647	>160	7	68	75
				-		

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

ISO 4406 (c) >19/17/14

2

0

0

18/14/10

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

16

0

0

▲ 21/18/13

24

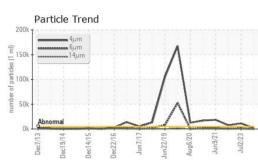
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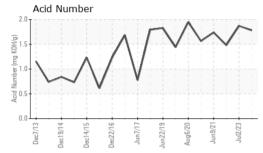
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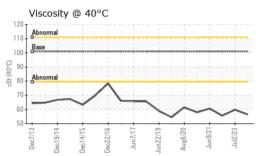
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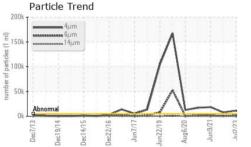


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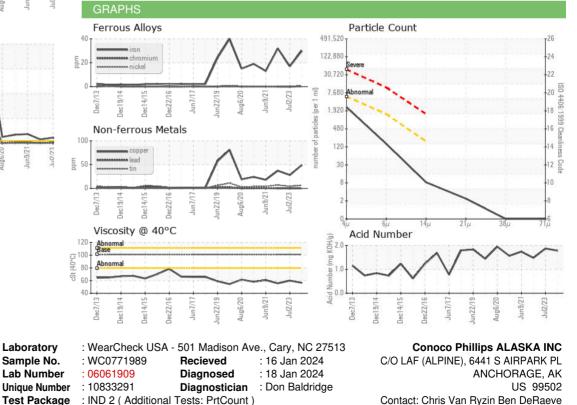


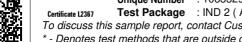
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.78	1.87	1.479
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	101	56.5	59.8	55.7
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom







To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

Submitted By: Chris Van Ryzin Ben DeRaeve