

OIL ANALYSIS REPORT

Area Stoneway Concrete Renton [Stoneway Concrete Renton] 10-534

Hydraulic System

CASTROL DUAL RANGE HV HYD OIL ISO 46 (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

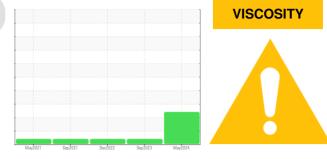
Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

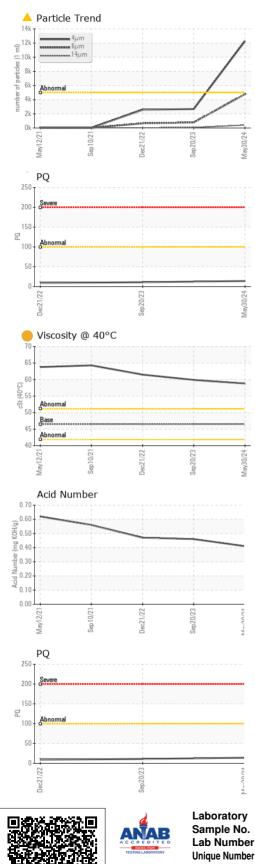
n] 10-534						
6 (GAL)		May2021	Sep2021	Dec2022 Sep2023	Mæy2024	
SAMPLE INFORM	NOTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003286	PE0002288	PE0000335
Sample Date		Client Info		30 May 2024	20 Sep 2023	21 Dec 2022
Machine Age	hrs	Client Info		4562	4562	3182
Dil Age	hrs	Client Info		4562	4562	3182
Dil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	MARGINAL	MARGINAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	11	9
ron	ppm	ASTM D5185m	>20	6	5	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
ead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	10	10	9
Fin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		23	24	20
Phosphorus	ppm	ASTM D5185m		330	337	343
Zinc	ppm	ASTM D5185m		416	439	443
Sulfur	ppm	ASTM D5185m		912	971	1003
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	1	<1
Sodium	ppm	ASTM D5185m		1	3	0
Potassium	ppm	ASTM D5185m	>20	1	1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 12261	2678	2562
Particles >6µm		ASTM D7647	>1300	<u> </u>	781	656
Particles >14µm		ASTM D7647		<u> </u>	54	35
Particles >21µm		ASTM D7647		<mark> </mark> 78	15	7
Particles >38µm		ASTM D7647		2	0	0
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/19/16	19/17/13	19/17/12



Sample Rating Trend



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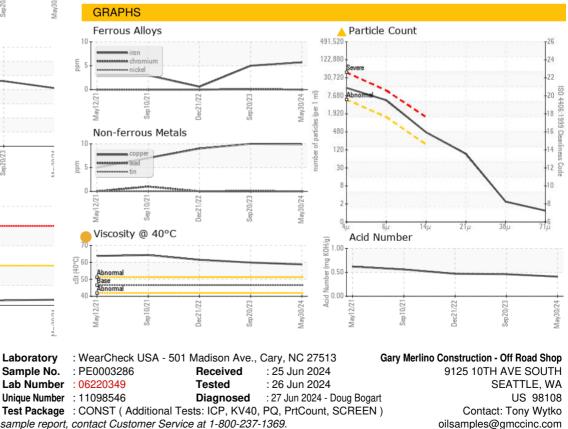


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.46	0.47
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.5	58.8	▲ 59.9	6 1.5
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)

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Certificate 12367

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson

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