

OIL ANALYSIS REPORT

NORMAL

Stoneway Concrete Renton [Stoneway Concrete Renton] 10-529

Hydraulic System

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

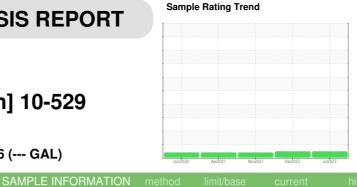
All component wear rates are normal.

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 Number		Client Info		PE0001155	PE0000339	PE12292696
Sample Date		Client Info		27 Jul 2023	14 Dec 2022	16 Nov 2021
Machine Age	hrs	Client Info		6537	5222	3821
Oil Age	hrs	Client Info		6537	5222	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9	7	
Iron	ppm	ASTM D5185m		4	4	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	0	0
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m	>75	8	7	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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	
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		34	54	37
Phosphorus	ppm	ASTM D5185m		320	304	309
Zinc	ppm	ASTM D5185m		397	412	437
Sulfur	ppm	ASTM D5185m		938	937	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	1	1
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3680	1708	18
Particles >6µm		ASTM D7647	>1300	968	234	15
Particles >14µm		ASTM D7647	>160	59	7	11
Particles >21µm		ASTM D7647	>40	15	1	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	18/15/10	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

0.51

0.40

0.67



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