

PROBLEM SUMMARY

STONEWAY CONCRETE RENTON **[STONEWAY CONCRETE RENTON] 16-336**

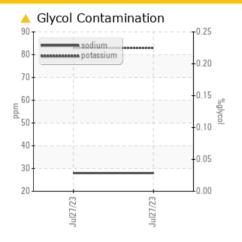
1 Diesel Engine

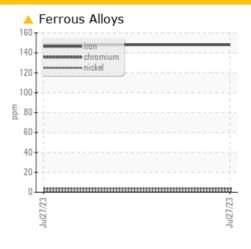
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

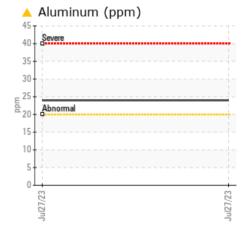
Sample Rating Trend



COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL					
Iron	ppm	ASTM D5185m	>100	<u> </u>					
Aluminum	ppm	ASTM D5185m	>20	<u> </u>					
Potassium	ppm	ASTM D5185m	>20	A 83					

Customer Id: GARSEA **Sample No.:** PE0001161 Lab Number: 05922649 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Resample			?	We recommend an early resample to monitor this condition.			

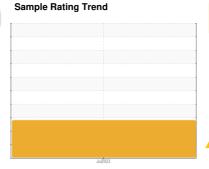


OIL ANALYSIS REPORT

STONEWAY CONCRETE RENTON **[STONEWAY CONCRETE RENTON] 16-336**

1 Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Piston and cylinder wear is indicated.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001161		
Sample Date		Client Info		27 Jul 2023		
Machine Age	hrs	Client Info		13537		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	148		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 24		
Lead	ppm	ASTM D5185m	>40	4		
Copper	ppm	ASTM D5185m	>330	13		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	58		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	12		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	450	181		
Calcium	ppm	ASTM D5185m	3000	2027		
Phosphorus	ppm	ASTM D5185m	1150	896		
Zinc	ppm	ASTM D5185m	1350	1155		
Sulfur	ppm	ASTM D5185m	4250	3671		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14		
Sodium	ppm	ASTM D5185m	>158	28		
Potassium	ppm	ASTM D5185m	>20	83		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7		
Nitration	Abs/cm	*ASTM D7624	>20	18.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.4		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	35.6		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3		



OIL ANALYSIS REPORT

