

OIL ANALYSIS REPORT

Sample Rating Trend



GRAND WAGONEER GRAND WAGONEER

Aft Gasoline Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

				Feb 2022		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0584608		
Sample Date		Client Info		13 Feb 2022		
Machine Age	mls	Client Info		149055		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	70. 2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	74		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>5	1		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>40	13		
Lead	ppm	ASTM D5185m	>50	<u> </u>		
Copper	ppm	ASTM D5185m	>155	<u> </u>		
Tin	ppm	ASTM D5185m	>10	2		
Antimony	ppm	ASTM D5185m		43		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		258		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		35		
Calcium	ppm	ASTM D5185m		2113		
Phosphorus		ASTM D5185m				
	ppm	HICOLCA INLOW		1286		
Zinc	ppm	ASTM D5165III		1286 1547		
Zinc Sulfur						
	ppm	ASTM D5185m	limit/base	1547		 history2
Sulfur	ppm	ASTM D5185m ASTM D5185m	limit/base >30	1547 4956		
Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method		1547 4956 current	 history1	history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	>30	1547 4956 current 22	history1	history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>30 >400	1547 4956 current 22 19	history1	history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	1547 4956	 history1 	history2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>30 >400 >20 limit/base	1547 4956 current 22 19	history1	history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>30 >400 >20 limit/base	1547 4956	history1 history1 history1	history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>30 >400 >20 limit/base	1547 4956	history1 history1 history1	history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>30 >400 >20 limit/base >20 >30 limit/base	1547 4956 current 22 19 3 current 0.1 9.7 23.6 current	history1 history1 history1 history1	history2 history2 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>30 >400 >20 limit/base >20 >30	1547 4956	history1 history1 history1	history2 history2



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