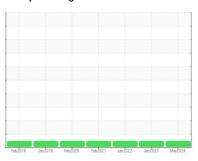


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

SEAGRAVE TRUCK 4

Right Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 22 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The condition of the oil is acceptable for the time in service.

Sample Number Client Info WC0872639 WC0767766 WC0639688 Sample Date Client Info 16 Mar 2024 20 Jan 2023 23 Jan 2023 20 Jan 2023 23 Jan 2023 20 Jan 2023 23 Jan 2023 20 J			Feb 2016	Jan2018 Feb2020	Feb 2021 Jan 2022 Jan 2023	Mar2024	
Client Info	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Client Info 16 Mar 2024 20 Jan 2023 23 Jan 2023 20 Jan 2023 20 Jan 2023 23 Jan 2023 20 Jan 2023 20 Jan 2023 20 Jan 2023 23 Jan 2023 20 Jan 2023 23 Jan 2023 20 Jan 2023 23 Jan 2023 23 Jan 2023 23 Jan 2023 20 Jan 2023 23 Jan 2023 24 Jan 2023	Sample Number		Client Info		WC0872639	WC0767766	WC0639686
Machine Age mls Client Info 2920 0 0 Dil Age mls Client Info 24352 0 0 Dil Changed Client Info N/A N/A N/A N/A Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imitbase current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method Imitbase current history1 history2 fron ppm ASTM 05185m >10 <1	Sample Date		Client Info		16 Mar 2024	20 Jan 2023	23 Jan 2022
Dil Age		mls	Client Info		2920	0	0
NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method fimit/base current history1 history2 NEG	Oil Age	mls	Client Info		24352	0	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 4 4 4 Chromium ppm ASTM D5185m >10 <1	Oil Changed		Client Info		N/A	N/A	N/A
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 4 4 4 4 Chromium ppm ASTM D5185m >10 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 0 <1 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 0 <1 0 0 0 0 0 0 0 0 0	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	CONTAMINATION		method	limit/base	current	history1	history2
ASTM D5185m S20 A	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>20	4	4	4
Silver	Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Silver	Nickel	ppm	ASTM D5185m	>10	<1	0	0
Aluminum	Titanium	ppm	ASTM D5185m		<1	0	0
Lead	Silver	ppm	ASTM D5185m		<1	0	0
Copper	Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Tin	Lead	ppm	ASTM D5185m	>10	2	1	1
Antimony	Copper	ppm	ASTM D5185m	>75	27	23	22
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 1 <1 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 0 0 1 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 5 0 0 0 Magnesium ppm ASTM D5185m 5 <1 0 0 Magnesium ppm ASTM D5185m 25 4 4 5 Calcium ppm ASTM D5185m 20 133 130 148 Phosphorus ppm ASTM D5185m 20 419 360 410 Zinc ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 <	Tin	ppm	ASTM D5185m	>10	1	0	0
Cadmium ppm ASTM D5185m 1 <1 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 0 0 1 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 5 <1 0 0 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m 25 4 4 5 Calcium ppm ASTM D5185m 200 133 130 148 Phosphorus ppm ASTM D5185m 300 419 360 410 Zinc ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 </td <td>Antimony</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th></th> <td></td> <td>0</td>	Antimony	ppm	ASTM D5185m				0
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron	Cadmium	ppm	ASTM D5185m		1	<1	<1
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 5 <1 0 0 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m	5	0	0	1
Manganese ppm ASTM D5185m <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>5</td> <th>0</th> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m	5	0	0	0
Magnesium ppm ASTM D5185m 25 4 4 5 Calcium ppm ASTM D5185m 200 133 130 148 Phosphorus ppm ASTM D5185m 300 419 360 410 Zinc ppm ASTM D5185m 370 534 494 539 Sulfur ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m >20 1 0 <1	Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Calcium ppm ASTM D5185m 200 133 130 148 Phosphorus ppm ASTM D5185m 300 419 360 410 Zinc ppm ASTM D5185m 370 534 494 539 Sulfur ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m >20 1 0 <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 300 419 360 410 Zinc ppm ASTM D5185m 370 534 494 539 Sulfur ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m 0 2 <1	Magnesium	ppm	ASTM D5185m	25	4	4	5
Zinc ppm ASTM D5185m 370 534 494 539 Sulfur ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m 0 2 <1	Calcium	ppm	ASTM D5185m	200	133	130	148
Sulfur ppm ASTM D5185m 2500 2191 2018 1914 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m >20 4 2 3 Potassium ppm ASTM D5185m >20 1 0 <1	Phosphorus	ppm	ASTM D5185m	300	419	360	410
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m >20 0 2 <1	Zinc	ppm	ASTM D5185m	370	534	494	539
Silicon ppm ASTM D5185m >20 4 2 3 Sodium ppm ASTM D5185m 0 2 <1 Potassium ppm ASTM D5185m >20 1 0 <1 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	Sulfur	ppm	ASTM D5185m	2500	2191	2018	1914
Sodium ppm ASTM D5185m 0 2 <1 Potassium ppm ASTM D5185m >20 1 0 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE	Silicon	ppm		>20	4	2	3
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	Sodium	ppm	ASTM D5185m		0	2	<1
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	Potassium	ppm	ASTM D5185m	>20	1	0	<1
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt 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

NORML

NEG

NEG

NORML

Supported By: RANDEYGPRICE

NORML

>0.1

scalar *Visual

scalar *Visual

*Visual

scalar

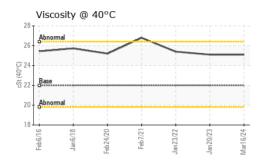
Odor

Emulsified Water

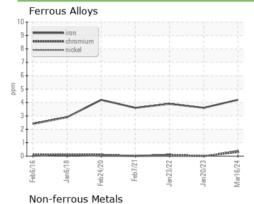
NORML

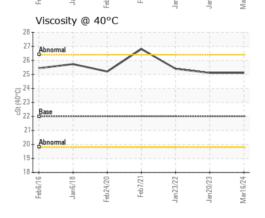


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	22	25.1	25.1	25.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image







Certificate 12367

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0872639 Lab Number : 06139024

Unique Number : 10963832 Test Package : FLEET

Received : 04 Apr 2024 Tested

: 05 Apr 2024 : 05 Apr 2024 - Wes Davis Diagnosed

CORNELIUS FIRE 19729 S MAIN ST CORNELIUS, NC US 28031

Contact: CHIEF ROBINETTE jrobinette@corneliusfd.org T: (704)892-8307

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)