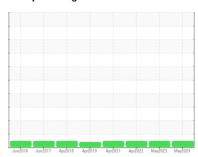


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **E-ONE TRUCK 45**

Component Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- PNT)

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

Jun2016 Jun2017 Apr2018 Apr2019 Apr2021 Apr2022 May2023 May2024								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0938782	WC0801352	WC0683982		
Sample Date		Client Info		18 May 2024	10 May 2023	20 Apr 2022		
Machine Age	mls	Client Info		2952	0	2952		
Oil Age	mls	Client Info		2952	0	2952		
Oil Changed		Client Info		N/A	Not Changd	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATIO	N	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	2	2	2		
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>10	0	<1	0		
Titanium	ppm	ASTM D5185m		<1	0	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>10	4	0	<1		
_ead	ppm	ASTM D5185m	>10	1	1	1		
Copper	ppm	ASTM D5185m	>75	13	11	11		
Tin	ppm	ASTM D5185m	>10	<1	<1	<1		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	<1	0	2		
Barium	ppm	ASTM D5185m ASTM D5185m	5 5	<1 1	0	2		
Barium								
Barium Molybdenum	ppm	ASTM D5185m	5	1	0	0		
Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	5	1 0	0 <1	0 <1		
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5	1 0 0	0 <1 0	0 <1 <1		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25	1 0 0 9	0 <1 0 8	0 <1 <1 8		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200	1 0 0 9 90	0 <1 0 8 83	0 <1 <1 8 79		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300	1 0 0 9 90 358	0 <1 0 8 83 330	0 <1 <1 8 79 334		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370	1 0 0 9 90 358 458	0 <1 0 8 83 330 435	0 <1 <1 8 79 334 424		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	1 0 0 9 90 358 458 1291	0 <1 0 8 83 330 435 1361	0 <1 <1 8 79 334 424 969		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base	1 0 0 9 90 358 458 1291	0 <1 0 8 83 330 435 1361 history1	0 <1 <1 8 79 334 424 969 history2		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	1 0 0 9 90 358 458 1291 current	0 <1 0 8 83 330 435 1361 history1 14	0 <1 <1 8 79 334 424 969 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	1 0 0 9 90 358 458 1291 current	0 <1 0 8 83 330 435 1361 history1 14 0	0 <1 <1 8 79 334 424 969 history2 16 <1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	5 5 25 200 300 370 2500 limit/base >20 >20	1 0 0 9 90 358 458 1291 current 15 0 2	0 <1 0 8 83 330 435 1361 history1 14 0 <1 history1 NONE	0 <1 <1 8 79 334 424 969 history2 16 <1 <1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20 limit/base	1 0 0 9 90 358 458 1291 current 15 0 2	0 <1 0 8 83 330 435 1361 history1 14 0 <1 history1	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	5 5 25 200 300 370 2500 limit/base >20 >20	1 0 0 9 90 358 458 1291 current 15 0 2	0 <1 0 8 83 330 435 1361 history1 14 0 <1 history1 NONE	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	5 5 25 200 300 370 2500 limit/base >20 	1 0 0 9 90 358 458 1291 current 15 0 2 current NONE	0 <1 0 8 83 330 435 1361 history1 14 0 <1 history1 NONE NONE	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 NONE NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m **Visual **Visual	5 5 25 200 300 370 2500 limit/base >20 limit/base NONE NONE NONE	1 0 0 9 90 358 458 1291 current 15 0 2 current NONE NONE	0 <1 0 8 83 330 435 1361 history1 14 0 <1 NONE NONE NONE	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 NONE NONE NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	5 5 25 200 300 370 2500 limit/base >20 NONE NONE NONE	1 0 0 9 90 358 458 1291 current 15 0 2 current NONE NONE	0 <1 0 8 83 330 435 1361 history1 14 0 <1 NONE NONE NONE NONE	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 <1 NONE NONE NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	ASTM D5185m MEthod ASTM D5185m *Visual *Visual	5 5 25 200 300 370 2500 limit/base >20 NONE NONE NONE NONE	1 0 0 9 90 358 458 1291 current 15 0 2 current NONE NONE NONE NONE NONE NONE	0 <1 0 8 83 330 435 1361 history1 14 0 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 NONE NONE NONE NONE NONE NONE NONE NON		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m METHOD METHOD *Visual	5 5 25 200 300 370 2500 limit/base >20 >20 NONE NONE NONE NONE NONE	1 0 0 9 90 358 458 1291 current 15 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 <1 0 8 83 330 435 1361 history1 14 0 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 <1 8 79 334 424 969 history2 16 <1 <1 NONE NONE NONE NONE NONE NONE NONE NON		

Emulsified Water

scalar *Visual

scalar *Visual

>0.1

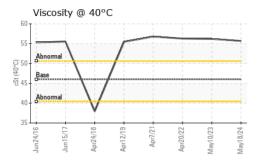
NEG

NEG

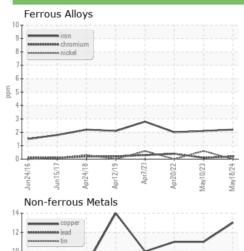
Supported By: RANDEY PRICE

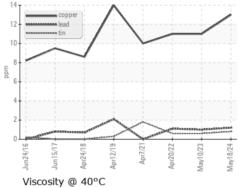


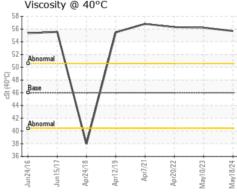
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	55.7	56.2	56.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image











Certificate 12367

Laboratory

Sample No. : WC0938782 Lab Number : 06200970 Unique Number : 11063093 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 Tested Diagnosed

: 06 Jun 2024

: 06 Jun 2024 - Wes Davis To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: ALLEN WIGGINS AWIGGINS@MONTGOMERYAL.GOV T: (334)625-2151

* - 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)

Submitted By: RANDY PRICE

MONTGOMERY FIRE DEPT

3003 E SOUTH BLVD

MONTGOMERY, AL

Report Id: MONMONALFD [WUSCAR] 06200970 (Generated: 06/07/2024 22:03:43) Rev: 1

US 36104