

OIL ANALYSIS REPORT

Sample Rating Trend



TRUCK 11

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

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

May2022 Ju2022 Sap2022 Dad022 Dad022 Fab2023 Ap2023 Jun2023 Aug2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013224	KL0011662	KL0011459
Sample Date		Client Info		30 Aug 2023	08 Jun 2023	28 Apr 2023
Machine Age	hrs	Client Info		1417	13363	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	5	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	5
Lead	ppm	ASTM D5185m		1	0	<1
Copper	ppm	ASTM D5185m		5	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	23	53	50
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	55	42	44
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	450	564	17	53
Calcium	ppm	ASTM D5185m	3000	1324	2300	2549
Phosphorus	ppm	ASTM D5185m	1150	1032	1075	1182
Zinc	ppm	ASTM D5185m	1350	1247	1302	1415
Sulfur	ppm	ASTM D5185m	4250	3709	5770	5995
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		4	3	2
Sodium	ppm	ASTM D5185m	>216	14	5	4
Potassium	ppm	ASTM D5185m	>20	8	4	3
Fuel	%	ASTM D3524	>5	1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	8.2	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	18.8	18.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.1	14.6	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	6.5	7.2



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Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 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)

Report Id: UNICARKL [WUSCAR] 05966137 (Generated: 10/04/2023 15:57:58) Rev: 1

Contact/Location: GERALD GOAD - UNICARKL

Apr28/23

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UNITED SALT

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Feb2/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.2