

OIL ANALYSIS REPORT

Sample Rating Trend



Area (50960Z) Walgreens Machine Id [Walgreens] 136A63320

Diesel Engine Fluid SAE 15W30 (11 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

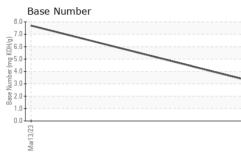
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

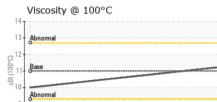
			Mar2023	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103549	PCA0092922	
Sample Date		Client Info		13 Aug 2023	13 Mar 2023	
Machine Age	mls	Client Info		106339	42988	
Oil Age	mls	Client Info		60000	42988	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	51	53	
Chromium	ppm	ASTM D5185m	>5	6	4	
Nickel	ppm	ASTM D5185m	>2	<1	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	105	148	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>150	90	93	
Tin	ppm	ASTM D5185m	>5	2	3	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
				v	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base	-	-	
		method	limit/base	current	history1	history2
Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 30	history2
Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 30 0	history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 61	history1 30 0 43	history2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 61 2	history1 30 0 43 4	history2
Boron Barium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 61 2 969	history1 30 0 43 4 520	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 61 2 969 1228	history1 30 0 43 4 520 1692	history2
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 61 2 969 1228 904	history1 30 0 43 4 520 1692 680	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 61 2 969 1228 904 1194	history1 30 0 43 4 520 1692 680 880	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 0 0 61 2 969 1228 904 1194 2309	history1 30 0 43 4 520 1692 680 880 2003	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 61 2 969 1228 904 1194 2309 Current	history1 30 0 43 4 520 1692 680 880 2003 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >20	current 0 0 61 2 969 1228 904 1194 2309 current 8	history1 30 0 43 4 520 1692 680 880 2003 history1 6	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >20	current 0 0 61 2 969 1228 904 1194 2309 current 8 5	history1 30 0 43 520 1692 680 880 2003 history1 6 5	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >20 >20	current 0 0 61 2 969 1228 904 1194 2309 current 8 5 201	history1 30 0 43 4 520 1692 680 880 2003 history1 6 5 312	history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >20 >20 limit/base >3	current 0 0 61 2 969 1228 904 1194 2309 current 8 5 201 current	history1 30 0 43 520 1692 680 2003 history1 6 5 312	history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >20 >20 limit/base >3 >20	current 0 0 61 2 969 1228 904 1194 2309 current 8 5 201 current 0.8	history1 30 0 43 4 520 1692 680 880 2003 history1 6 5 312 history1 0.4	history2 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm y	method ASTM D5185m ASTM D7844 *ASTM D7624	limit/base >20 >20 limit/base >3 >20	current 0 0 61 2 969 1228 904 1194 2309 current 8 5 201 current 0.8 10.7	history1 30 0 43 4 520 1692 680 880 2003 history1 6 5 312 history1 0.4 10.0	history2 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm y	method ASTM D5185m ASTM D7844 *ASTM D7624	Imit/base >20 >20 Imit/base >20 Sa >20 Sa >20 Sa >20	current 0 0 61 2 969 1228 904 1194 2309 current 8 5 201 current 0.8 10.7 22.7	history1 30 0 43 4 520 1692 680 880 2003 history1 6 5 312 history1 0.4 10.0 22.4	history2 history2 history2 history2



Mar13/23

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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)

Certificate L2367

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