

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

142213 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

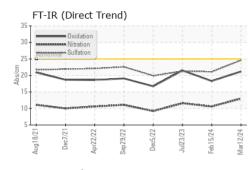
Fluid Condition

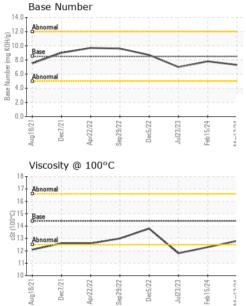
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL06139615	IL06101390	IL05917265
Sample Date		Client Info		12 Mar 2024	15 Feb 2024	23 Jul 2023
Machine Age	hrs	Client Info		1733	3540	435
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	63	36	52
Chromium	ppm	ASTM D5185m	>20	4	4	2
Nickel	ppm	ASTM D5185m	>4	1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	20	47	8
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	3	43
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES	ppm	ASTM D5185m method	limit/base	0 current	<1 history1	0 history2
	ppm		limit/base 250			-
ADDITIVES		method ASTM D5185m		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	250	current 3	history1 3	history2 22
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	250 10	current 3 0	history1 3 1	history2 22 4
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	250 10	current 3 0 62	history1 3 1 63	history2 22 4 51
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	current 3 0 62 2	history1 3 1 63 1	history2 22 4 51 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	current 3 0 62 2 945	history1 3 1 63 1 895	history2 22 4 51 6 789
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	Current 3 0 62 2 945 1116	history1 3 1 63 1 895 1028	history2 22 4 51 6 789 1252 718 934
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	Current 3 0 62 2 945 1116 1078	history1 3 1 63 1 895 1028 985	history2 22 4 51 6 789 1252 718
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350	Current 3 0 62 2 945 1116 1078 1336	history1 3 1 63 1 895 1028 985 1241	history2 22 4 51 6 789 1252 718 934
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	Current 3 0 62 2 945 1116 1078 3260 current 10	history1 3 1 63 1 895 1028 985 1241 3195	history2 22 4 51 6 789 1252 718 934 2234 history2 32
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	250 10 100 450 3000 1150 1350 4250	Current 3 0 62 2 945 1116 1078 1336 3260 Current	history1 3 1 63 1 895 1028 985 1028 985 1241 3195 history1	history2 22 4 51 6 789 1252 718 934 2234 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	Current 3 0 62 2 945 1116 1078 3260 current 10	history1 3 1 63 1 895 1028 985 1241 3195 history1 7	history2 22 4 51 6 789 1252 718 934 2234 history2 32
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216	Current 3 0 62 2 945 1116 1078 1336 3260 Current 10 2 9 Current	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Silicon Sodium Potassium INFRA-RED Soot %	ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20	Current 3 0 62 2 945 1116 1078 3260 current 10 2 9 current 10 2 9 current 1.6	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1 0.6	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2 0.4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Imit/base >25 >216 >20 Imit/base	Current 3 0 62 2 945 1116 1078 3260 current 10 2 9 current 1.6 13.0	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1 0.6 10.6	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2 0.4 11.6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Silicon Sodium Potassium INFRA-RED Soot %	ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >216 >20 Iimit/base >3	Current 3 0 62 2 945 1116 1078 3260 current 10 2 9 current 10 2 9 current 1.6	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1 0.6	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2 0.4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	250 10 100 450 3000 1150 1350 4250 imit/base >25 >216 >20 imit/base >3 >20	Current 3 0 62 2 945 1116 1078 3260 current 10 2 9 current 1.6 13.0	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1 0.6 10.6	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2 0.4 11.6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 imit/base >216 >216 >20 imit/base >3 >20 >30	Current 3 0 62 2 945 1116 1078 3260 current 10 2 9 current 1.6 13.0 24.6	history1 3 1 63 1 895 1028 985 1241 3195 history1 7 5 79 history1 0.6 10.6 21.1	history2 22 4 51 6 789 1252 718 934 2234 history2 32 1 10 history2 0.4 11.6 21.3



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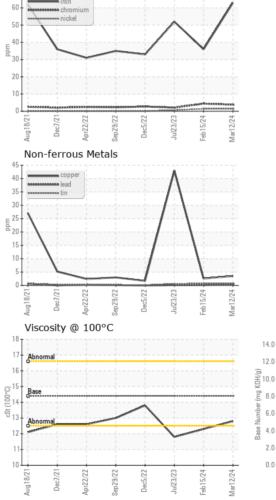


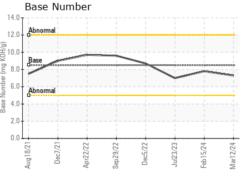


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.3	11.8
СРАРИС						

Ferrous Alloys

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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **RUSH TRUCK LEASING - CINCINNATI IDEALEASE** Sample No. : IL06139615 Received : 05 Apr 2024 11777 HIGHWAY DRIVE Lab Number : 06139615 Tested : 05 Apr 2024 CINCINNATI, OH Unique Number : 10964423 Diagnosed : 07 Apr 2024 - Don Baldridge US 45241 Test Package : FLEET Contact: ROBERT BAIER Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. baierr@rushenterprises.com T: (513)657-7901 * - 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) F: (513)733-0537

Report Id: IDECIN [WUSCAR] 06139615 (Generated: 04/07/2024 10:22:25) Rev: 1

Contact/Location: ROBERT BAIER - IDECIN

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