

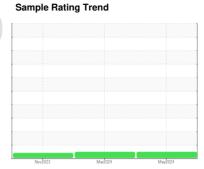
OIL ANALYSIS REPORT



TRACTORS [TRACTORS] 144

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)





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

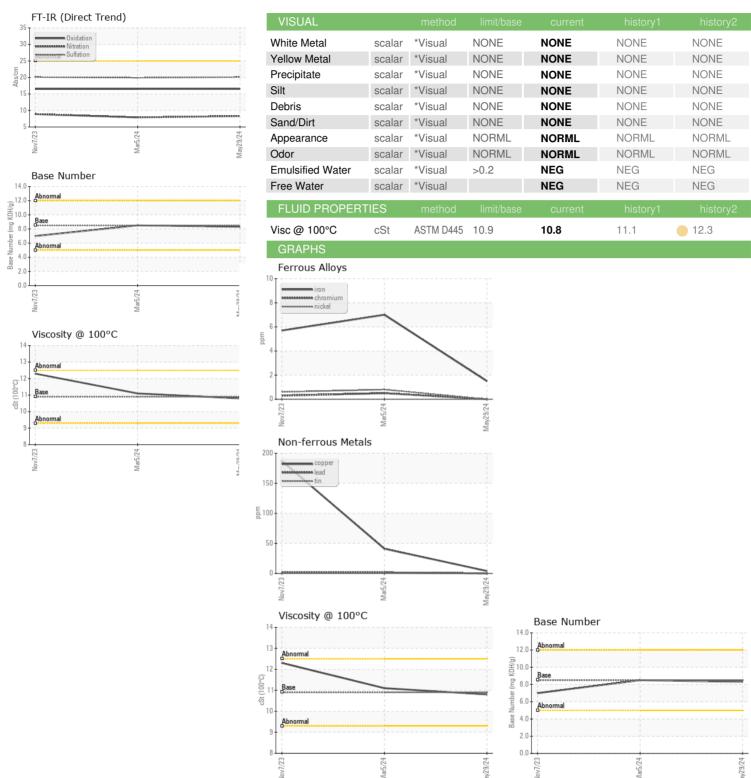
Fluid Condition

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

Sample Number Client Info SBP0006774 SBP0005825 SBP0005825 Sample Date Client Info 29 May 2024 05 Mar 2024 07 Nov 20	AE 100030 (G	AL)	NO	V2023	mai2024 may21	ICT	
Sample Date Client Info 29 May 2024 05 Mar 2024 07 Nov 20 Machine Age mls Client Info 808716 773675 25000 01 Age mls Client Info 25000 15000 0 01 Changed Client Info Changed Ch	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 808716 773675 25000 Oil Age mls Client Info 25000 15000 0 Oil Changed Client Info Changed Changed Changed Changed Sample Status Image: Client Info Changed Changed Changed ATTENTIC CONTAMINATION method Imilibase current history1 history1 Fuel WC Method >3.0 <1.0 <1.0 1.1 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >22 2 7 6 Chromium ppm ASTM D5185m >20 0 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 <1 <td< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>SBP0006774</th><th>SBP0005825</th><th>SBP0005633</th></td<>	Sample Number		Client Info		SBP0006774	SBP0005825	SBP0005633
Coli Age	Sample Date		Client Info		29 May 2024	05 Mar 2024	07 Nov 2023
Contained Client Info Changed NORMAL NORMAL ATTENTIC	Machine Age	mls	Client Info		808716	773675	25000
NORMAL NORMAL ATTENTION CONTAMINATION method limit/base current history1 history	Oil Age	mls	Client Info		25000	15000	0
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	Changed
Fuel WC Method So.0 Co.1.0 Co	Sample Status				NORMAL	NORMAL	ATTENTION
Water Glycol WC Method >0.2 NEG	CONTAMINATION	V	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>3.0	<1.0	<1.0	1.1
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >120 2 7 6 Chromium ppm ASTM D5185m >20 0 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Control Cont	Glycol		WC Method		NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>120	2	7	6
Titanium	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Aluminum	Titanium	ppm	ASTM D5185m	>2	0	<1	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >330 4 41 187 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>20	2	3	2
Tin	Lead	ppm	ASTM D5185m	>40	0	2	2
Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 250 2 4 7 Barium ppm ASTM D5185m 10 0 2 0 Molybdenum ppm ASTM D5185m 100 59 61 60 Manganese ppm ASTM D5185m 100 59 61 60 Manganesium ppm ASTM D5185m 450 991 921 988 Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1287 1268 1354 Sulfur ppm ASTM D5185m 225 10 5 5	Copper	ppm	ASTM D5185m	>330	4	41	187
Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 2 4 7 Barium ppm ASTM D5185m 10 0 2 0 Molybdenum ppm ASTM D5185m 100 59 61 60 Manganese ppm ASTM D5185m 100 59 61 60 Magnesium ppm ASTM D5185m 450 991 921 988 Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current	Tin	ppm	ASTM D5185m	>15	<1	1	1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron ppm ASTM D5185m 250 2	Cadmium	ppm	ASTM D5185m		0	<1	0
Barium ppm ASTM D5185m 10 0 2 0 Molybdenum ppm ASTM D5185m 100 59 61 60 Manganese ppm ASTM D5185m 100 59 61 60 Manganese ppm ASTM D5185m 100 59 91 921 988 Calcium ppm ASTM D5185m 450 991 921 988 Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm <td>ADDITIVES</td> <td></td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 59 61 60 Manganese ppm ASTM D5185m < 1 <1 <1 Magnesium ppm ASTM D5185m 450 991 921 988 Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base	Boron	ppm	ASTM D5185m	250	2	4	7
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>10</td> <th>0</th> <td>2</td> <td>0</td>	Barium	ppm	ASTM D5185m	10	0	2	0
Magnesium ppm ASTM D5185m 450 991 921 988 Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/.1mm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm	Molybdenum	ppm	ASTM D5185m	100	59	61	60
Calcium ppm ASTM D5185m 3000 1085 1272 1068 Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 1150 1059 1066 1107 Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/.mm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm	Magnesium	ppm	ASTM D5185m	450	991	921	988
Zinc ppm ASTM D5185m 1350 1287 1268 1354 Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m 1 3 3 Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414	Calcium	ppm	ASTM D5185m	3000	1085	1272	1068
Sulfur ppm ASTM D5185m 4250 3258 3341 3118 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m 1 3 3 Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Phosphorus	ppm	ASTM D5185m	1150	1059	1066	1107
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m 1 3 3 Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Zinc	ppm	ASTM D5185m	1350	1287	1268	1354
Silicon ppm ASTM D5185m >25 10 5 5 Sodium ppm ASTM D5185m 1 3 3 Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5	Sulfur	ppm	ASTM D5185m	4250	3258	3341	3118
Sodium ppm ASTM D5185m 1 3 3 Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 4 2 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Silicon	ppm	ASTM D5185m	>25	10	5	5
INFRA-RED	Sodium	ppm	ASTM D5185m		1	3	3
Soot % % *ASTM D7844 >4 0.3 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Potassium	ppm	ASTM D5185m	>20	0	4	2
Nitration Abs/cm *ASTM D7624 >20 8.3 7.9 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 20.1 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Soot %	%	*ASTM D7844	>4	0.3	0.1	0.1
FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 16.5 16.5 16.5	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.9	8.9
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.9	20.1
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.5	16.5
	Base Number (BN)	mg KOH/g			8.3	8.5	7.0



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06198581 Unique Number : 11060704 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006774 Received : 03 Jun 2024

Tested : 04 Jun 2024 Diagnosed : 04 Jun 2024 - Wes Davis

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)

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