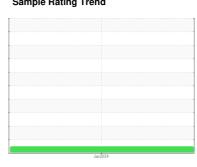


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **6888977** Component

Diesel Engine

{not provided} (--- 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 oil.

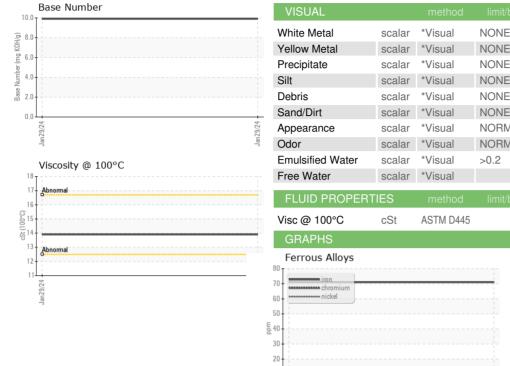
Fluid Condition

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.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 29 Jan 2024							
Sample Number Client Info IL06073762					Jan2024		
Client Info 29 Jan 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Client Info 29 Jan 2024	Sample Number		Client Info		IL06073762		
Machine Age mls Client Info 0			Client Info		29 Jan 2024		
Oil Changed	•	mls	Client Info		0		
Contament Cont	<u> </u>	mls	Client Info		0		
CONTAMINATION method limit/base current history1 history2	-		Client Info		N/A		
Water WC Method So.2 NEG NEG NEG N	-				NORMAL		
Water Glycol WC Method >0.2 NEG	CONTAMINATION	٧	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
WEAR METALS	Water		WC Method	>0.2	NEG		
Irron	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm	ron	ppm	ASTM D5185m	>100	71		
Titanium	Chromium	ppm	ASTM D5185m	>20	2		
Silver	Nickel	ppm	ASTM D5185m	>4	<1		
Astroper	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	8		
Tin	Lead	ppm	ASTM D5185m	>40	<1		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 96 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 97 Manganese ppm ASTM D5185m 97 Magnesium ppm ASTM D5185m 572 Calcicium ppm ASTM D5185m 3512 Phosphorus ppm ASTM D5185m 1896 Zinc ppm ASTM D5185m 4543 Sulfur ppm ASTM D5185m >25 10 CONTAMINANTS method limi	Copper	ppm	ASTM D5185m	>330	4		
ADDITIVES	Tin	ppm	ASTM D5185m	>15	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 97 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 3512 Phosphorus ppm ASTM D5185m 1499 Zinc ppm ASTM D5185m 1896 Sulfur ppm ASTM D5185m 4543 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m 3 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.	Boron	ppm	ASTM D5185m		96		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 3512 Phosphorus ppm ASTM D5185m 1499 Zinc ppm ASTM D5185m 1896 Sulfur ppm ASTM D5185m 4543 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m >25 10 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 14.5 Sulfation	Barium	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 1499 Phosphorus ppm ASTM D5185m 1896 Zinc ppm ASTM D5185m 4543 Sulfur ppm ASTM D5185m >25 10 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Sulfation Abs/.1mm	Molybdenum	ppm	ASTM D5185m		97		
Calcium ppm ASTM D5185m 3512 Phosphorus ppm ASTM D5185m 1499 Zinc ppm ASTM D5185m 1896 Sulfur ppm ASTM D5185m 4543 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidatio			ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 1499 Zinc ppm ASTM D5185m 1896 Sulfur ppm ASTM D5185m 4543 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m		572		
Table Tabl	Calcium	ppm	ASTM D5185m		3512		
Zinc ppm ASTM D5185m 1896 Sulfur ppm ASTM D5185m 4543 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9 <	Phosphorus		ASTM D5185m		1499		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	Zinc	ppm	ASTM D5185m		1896		
Silicon ppm ASTM D5185m >25 10	Sulfur	ppm	ASTM D5185m		4543		
Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	Silicon	ppm	ASTM D5185m	>25	10		
INFRA-RED	Sodium	ppm	ASTM D5185m		3		
Soot % *ASTM D7844 >3 0.8 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	Potassium	ppm	ASTM D5185m	>20	9		
Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 30.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	Soot %	%	*ASTM D7844	>3	0.8		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 29.9	Nitration	Abs/cm	*ASTM D7624	>20	14.5		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	29.9		
	Base Number (BN)	mg KOH/g			9.9		

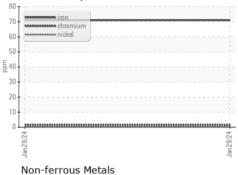


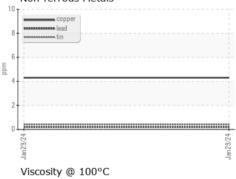
OIL ANALYSIS REPORT

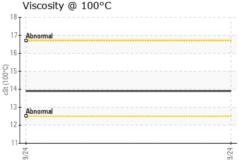


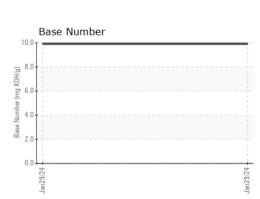
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	TES	method	limit/base	current	history1	history2

13.9













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: IL06073762 : 06073762 Unique Number : 10855853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 30 Jan 2024 : 31 Jan 2024 Diagnostician : Don Baldridge

IDEALEASE-NORCROSS 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808 Contact: RICK MARKS

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)

F: (770)300-0614