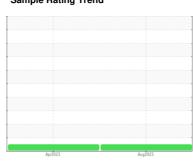


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
39119
Component
Diesel Engine
Fluid
NOT GIVEN (--- GAL)

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

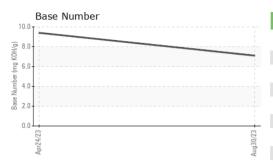
Fluid Condition

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

			Apr2023	Aug ² 023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	VII/ (11101)		mmbasc			
Sample Number		Client Info		IL05967527	IL05828628	
Sample Date	and a	Client Info		30 Aug 2023	24 Apr 2023	
Machine Age	mls	Client Info		7315	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	141	44	
Chromium	ppm	ASTM D5185m	>20	2	1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	3	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	2	3	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVEC		ام مالم مدر	limit/bass		المراجع والمراجع	history2
ADDITIVES		method	limit/base	current	history1	HISTOLYZ
Boron	ppm	ASTM D5185m	iimii/base	20	42	
	ppm		IIIIII/Dase			
Boron		ASTM D5185m	IIIIII/Dase	20	42	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	IIIIII/Dase	20 0	42 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	IIIIIVoase	20 0 46	42 0 43	
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIIIIVoase	20 0 46 2	42 0 43 2	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIIIII/Dase	20 0 46 2 497	42 0 43 2 495	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIIIII/Dase	20 0 46 2 497 1596	42 0 43 2 495 1482	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIIIII/Dase	20 0 46 2 497 1596 720	42 0 43 2 495 1482 729	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	20 0 46 2 497 1596 720 887	42 0 43 2 495 1482 729 860	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		20 0 46 2 497 1596 720 887 2263	42 0 43 2 495 1482 729 860 2252	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	20 0 46 2 497 1596 720 887 2263 current	42 0 43 2 495 1482 729 860 2252 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	20 0 46 2 497 1596 720 887 2263 current	42 0 43 2 495 1482 729 860 2252 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20	20 0 46 2 497 1596 720 887 2263 current 12 2	42 0 43 2 495 1482 729 860 2252 history1 9	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20	20 0 46 2 497 1596 720 887 2263 current 12 2	42 0 43 2 495 1482 729 860 2252 history1 9 1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20 >5	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m	limit/base >25 >20 >5 limit/base >3	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0 current 1.9	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0 history1 0.8	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm	ASTM D5185m	limit/base >25 >20 >5 limit/base	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7844 *ASTM D7844	limit/base >25 >20 >5 limit/base >3 >20	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0 current 1.9 14.8	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0 history1 0.8 8.7	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >25 >20 >5 limit/base >3 >20 >30 limit/base	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0 current 1.9 14.8 25.8 current	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0 history1 0.8 8.7 22.3 history1	history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	limit/base >25 >20 >5 limit/base >3 >20 >30 limit/base	20 0 46 2 497 1596 720 887 2263 current 12 2 0 <1.0 current 1.9 14.8 25.8	42 0 43 2 495 1482 729 860 2252 history1 9 1 2 <1.0 history1 0.8 8.7 22.3	history2 history2



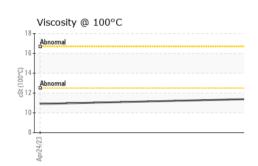
OIL ANALYSIS REPORT

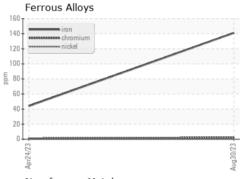


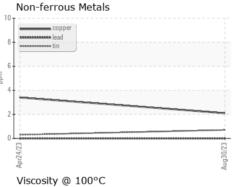
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

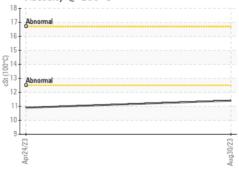
FLUID PROPERTIES		method		HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	11.4	10.9	

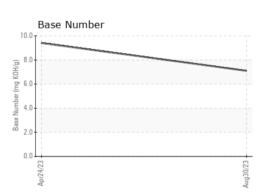
GRAPHS















Laboratory Sample No. Lab Number Unique Number : 10674078

: IL05967527 : 05967527

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

: 03 Oct 2023 Diagnosed

: 04 Oct 2023 Diagnostician : Sean Felton

Test Package: FLEET (Additional Tests: FuelDilution) 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)

IDEALEASE-NORCROSS 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808

Contact: RICK MARKS

F: (770)300-0614