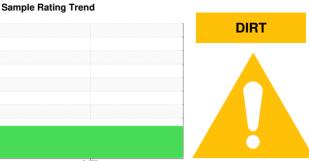


OIL ANALYSIS REPORT



Machine Id

LINDE 5266 (S/N H2X394/402201)

Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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

Fuel content negligible. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

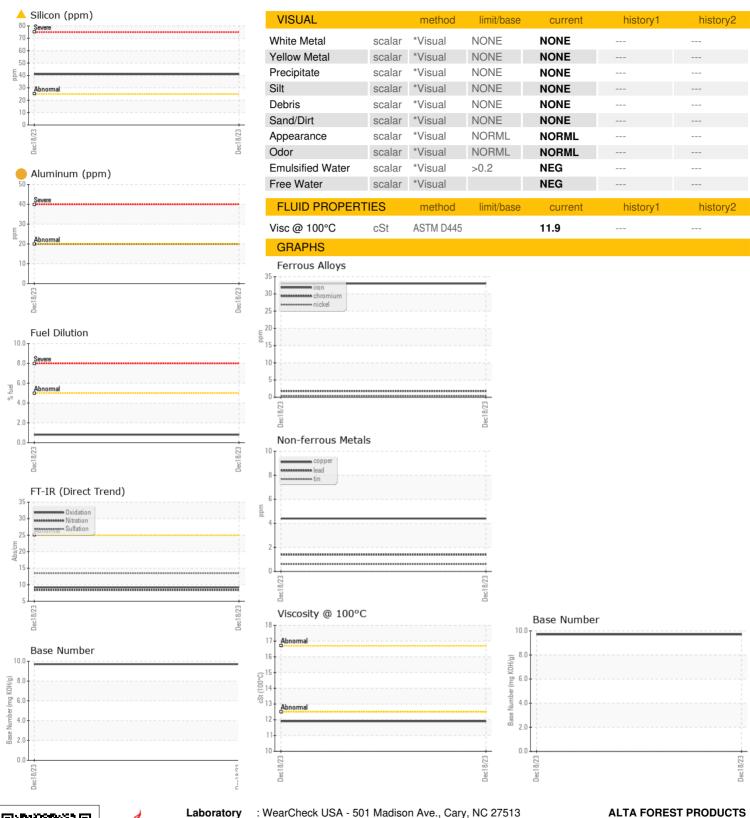
Fluid Condition

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.

				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0002454		
Sample Date		Client Info		18 Dec 2023		
Machine Age	hrs	Client Info		26000		
Oil Age	hrs	Client Info		250		
Oil Changed	0	Client Info		N/A		
Sample Status				ABNORMAL		
-			1''-/		to the bound	la la tarre O
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	- <1		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u>20</u>		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m		4		
Tin	ppm	ASTM D5185m	>15	- <1		
Vanadium	ppm	ASTM D5185m	7.0	<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVE O	1-1-		15 15-/1			history O
ADDITIVES	1-1-	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base			history2
		method	limit/base	current	history1	
Boron	ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 54	history1	
Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 54 0	history1	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 54 0 78	history1	
Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 54 0 78	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714 844	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714 844	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		54 0 78 1 37 1920 714 844 2414	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714 844 2414 current	history1 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41	history1 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8	history1 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 >5	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8	history1 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 >5 limit/base	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current	history1 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7844	limit/base >25 >20 >5 limit/base >3	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current 0.2	history1 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7844 *ASTM D7844	limit/base >25 >20 >5 limit/base >3 >20	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current 0.2 8.4	history1 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	limit/base >25 >20 >5 limit/base >3 >20 >3	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current 0.2	history1 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7844 *ASTM D7844	limit/base >25 >20 >5 limit/base >3 >20	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current 0.2 8.4	history1 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	limit/base >25 >20 >5 limit/base >3 >20 >3	current 54 0 78 1 37 1920 714 844 2414 current ▲ 41 8 28 0.8 current 0.2 8.4 13.5	history1 history1 history1	history2 history2



OIL ANALYSIS REPORT







Laboratory Sample No.

: PE0002454

Lab Number : 06138288 Unique Number : 10963096

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024

Tested : 08 Apr 2024 Diagnosed

: 08 Apr 2024 - Sean Felton

7127 US HWY 101 AMANDA PARK, WA US 98526

Test Package : CONST (Additional Tests: FT-IR, FuelDilution, ICP, KV100, PercentFuel, SCREGNactBROGER TJEPKEMA Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Rogertjepkema@altafp.com st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: