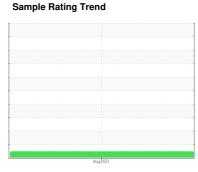


OIL ANALYSIS REPORT

r Sa



NORMAL



12 HAUL TRUCK

Component

Diesel Engine

Diesel Engine

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

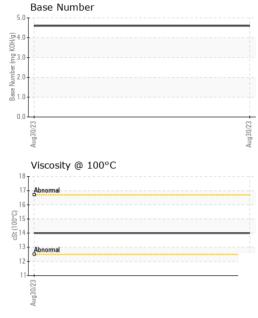
Fluid Condition

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

			,	Aug2023		
SAMPLE INFORM	ΛΑΤΙΩΝ	method	limit/base	current	history1	history2
	ni/ (TTOTA		IIIIIIIIII		•	,
Sample Number		Client Info		KL0013223		
Sample Date	laua	Client Info		30 Aug 2023		
Machine Age	hrs	Client Info		21062		
Oil Age	hrs	Client Info		0 N/A		
Oil Changed		Client Info				
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	74		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm		>330	18		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		27		
Barium	ppm			0		
Danum						
Molyhdanum		ASTM D5185m		-		
Molybdenum	ppm	ASTM D5185m		66		
Manganese	ppm	ASTM D5185m ASTM D5185m		66 2		
Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		66 2 174		
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		66 2 174 2159		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		66 2 174 2159 1055		
Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		66 2 174 2159		
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	limit/base	66 2 174 2159 1055 1326 4214		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	66 2 174 2159 1055 1326 4214		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m		66 2 174 2159 1055 1326 4214 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25	66 2 174 2159 1055 1326 4214 current 5	 history1	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25 >20	66 2 174 2159 1055 1326 4214 current 5 7	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25 >20 limit/base	66 2 174 2159 1055 1326 4214 current 5 7 5	 history1	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>25 >20 limit/base >3	66 2 174 2159 1055 1326 4214 current 5 7 5 current 0.7	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	>25 >20 limit/base >3 >20	66 2 174 2159 1055 1326 4214 current 5 7 5 current 0.7 11.1	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>25 >20 limit/base >3	66 2 174 2159 1055 1326 4214 current 5 7 5 current 0.7	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	>25 >20 limit/base >3 >20	66 2 174 2159 1055 1326 4214 current 5 7 5 current 0.7 11.1	history1 history1	history2 history2
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	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	66 2 174 2159 1055 1326 4214 current 5 7 5 current 0.7 11.1 27.8	history1 history1	history2 history2

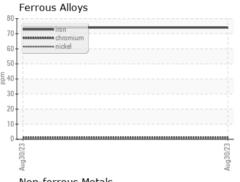


OIL ANALYSIS REPORT



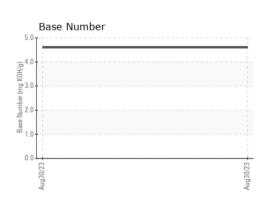
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

I LOID I HOI LI	TILO			
Visc @ 100°C	cSt	ASTM D445	14.0	



18 T					
16	copper	ì			
	neesees lead				
14+	nessess till				
12		, 			
10+					
8					
i					
6			 	 	
4					
2			 	 	
0					
23					
30/					
Aug30/23					
Visc	osity @	100°C			









Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10672639

: KL0013223 : 05966088 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 Diagnosed Diagnostician : Wes Davis

: 03 Oct 2023

UNITED SALT 1434 POTASH MINES RD CARLSBAD, NM US 88220 Contact: GERALD GOAD

ggoad@unitedsalt.com

T: F:

* - 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)