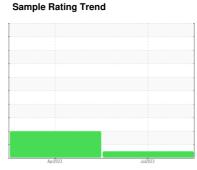


OIL ANALYSIS REPORT

DT







Machine Id **27318** Component **Diesel Engine** Fluid **NOT GIVEN (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

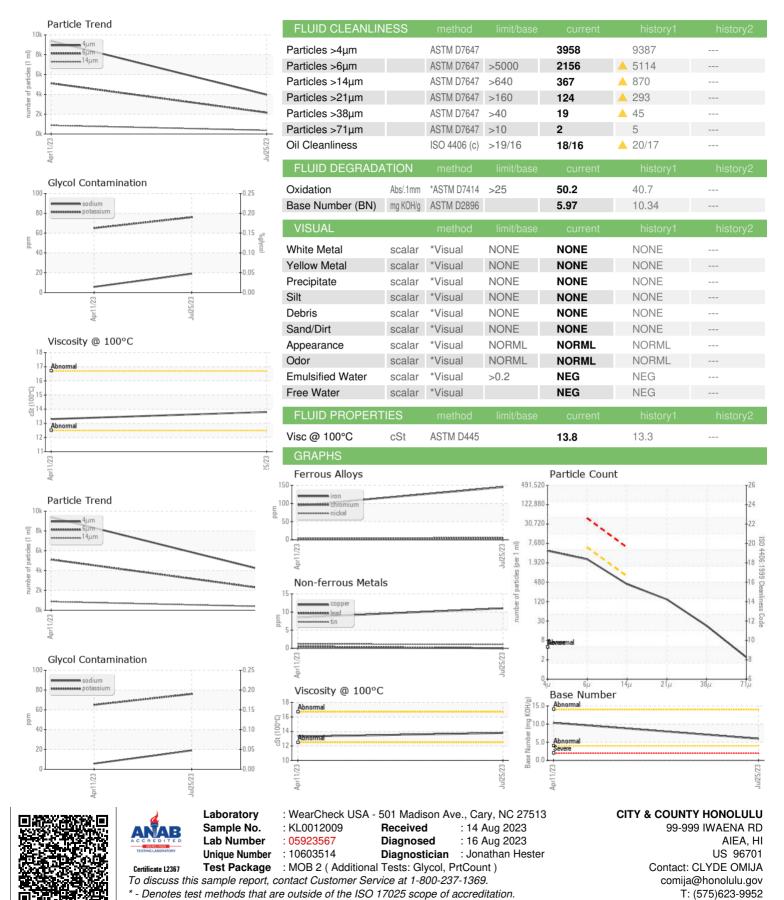
Fluid Condition

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

			Apr2023	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012009	KLM2339299	
Sample Date		Client Info		25 Jul 2023	11 Apr 2023	
Machine Age	mls	Client Info		41081	59328	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ATTENTION	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	145	94	
Chromium	ppm	ASTM D5185m	>20	5	3	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	27	22	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	11	8	
Tin	ppm	ASTM D5185m	>15	1	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	15	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		62	60	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m		1103	1102	
Calcium	ppm	ASTM D5185m		1170	1119	
Phosphorus	ppm	ASTM D5185m		1056	1052	
Zinc	ppm	ASTM D5185m		1344	1343	
Sulfur	ppm	ASTM D5185m		3587	3671	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	14	
Sodium	ppm	ASTM D5185m		19	6	
Potassium	ppm	ASTM D5185m	>20	76	65	
Glycol	%	*ASTM D2982		NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.9	1.6	
Nitration	Abs/cm	*ASTM D7624	>20	17.5	15.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	40.3	35.7	



OIL ANALYSIS REPORT



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