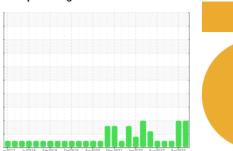


OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id

NORTHERN LIGHTS X6

Starboard Genset

CHEVRON DELO 400 MULTIGRADE 15W40 (5 QTS)

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

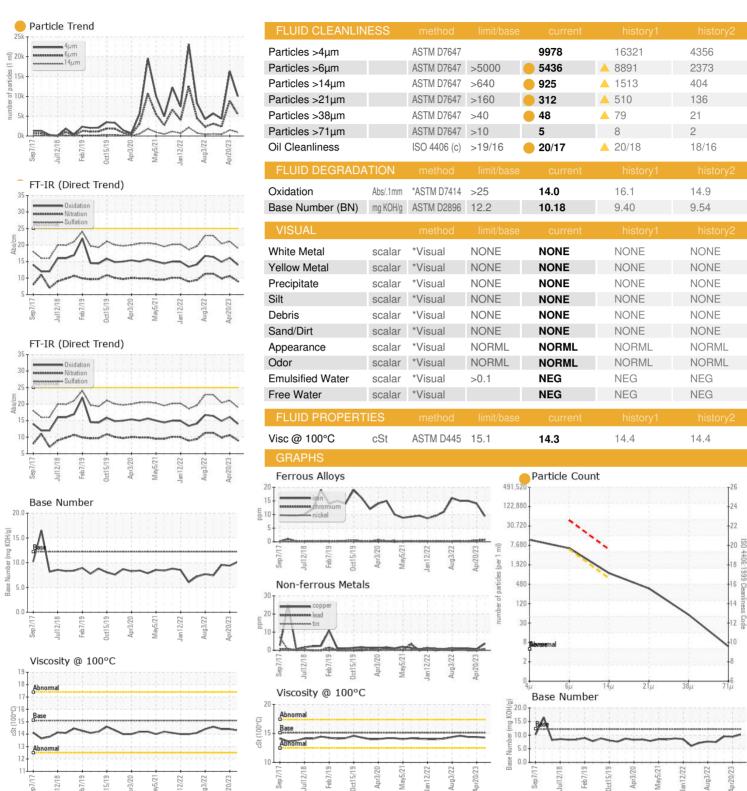
Fluid Condition

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

0 (5 QIS)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013493	KL0008982	KL0008975
Sample Date		Client Info		30 Apr 2024	20 Apr 2023	28 Dec 2022
Machine Age	hrs	Client Info		13668	11827	12942
Oil Age	hrs	Client Info		270	448	437
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Onorte iriio		ATTENTION	ABNORMAL	NORMAL
CONTAMINATION	VI.	method	limit/base	current	history1	history2
	V					
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	14	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	2	2	2
Lead	ppm	ASTM D5185m	>17	<1	0	0
Copper	ppm	ASTM D5185m	>70	4	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		63	33	49
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		792	819	765
Calcium	ppm	ASTM D5185m		1397	1474	1504
Phosphorus	ppm	ASTM D5185m	1360	781	745	719
Zinc	ppm	ASTM D5185m	1480	911	911	837
Sulfur	ppm	ASTM D5185m		3389	3648	3416
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	5
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	5	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.5	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.6	9.9
Sulfation	Abs/.1mm	*ASTM D7415		19.0	21.1	20.4



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: KL0013493 : 06183446 Unique Number : 11034772

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 May 2024

Tested : 20 May 2024 Diagnosed : 21 May 2024 - Don Baldridge

Test Package : MOB 2 (Additional Tests: PrtCount) 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)

EXPEDITIONS

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F: (808)661-0544 Submitted By: BILL CALDWELL