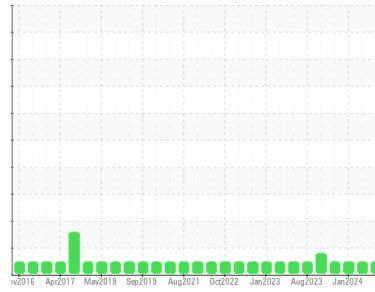




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
RANDY W DECK

Component
Genset

Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- QTS)

DIAGNOSIS

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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0922389	WC0759610	WC0759636
Sample Date	Client Info	22 May 2024	29 Mar 2024	31 Jan 2024
Machine Age	hrs Client Info	8542	8071	7624
Oil Age	hrs Client Info	500	500	500
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
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	6	9	6
Chromium	ppm ASTM D5185m >4	0	<1	0
Nickel	ppm ASTM D5185m >2	0	<1	<1
Titanium	ppm ASTM D5185m	3	3	<1
Silver	ppm ASTM D5185m >5	0	0	0
Aluminum	ppm ASTM D5185m >12	3	5	5
Lead	ppm ASTM D5185m >17	<1	0	1
Copper	ppm ASTM D5185m >70	<1	2	<1
Tin	ppm ASTM D5185m >15	0	<1	1
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 151	188	264	385
Barium	ppm ASTM D5185m 0.4	0	0	0
Molybdenum	ppm ASTM D5185m 250	103	124	134
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0	632	674	759
Calcium	ppm ASTM D5185m 2046	1665	1701	1788
Phosphorus	ppm ASTM D5185m 1043	773	818	862
Zinc	ppm ASTM D5185m 943	864	939	1074
Sulfur	ppm ASTM D5185m 5012	3110	3069	3132

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	0	7	6
Sodium	ppm ASTM D5185m	2	7	<1
Potassium	ppm ASTM D5185m >20	<1	3	<1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.3	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	9.5	9.0	7.2
Sulfation	Abs/.1mm *ASTM D7415 >30	22.0	22.0	22.3

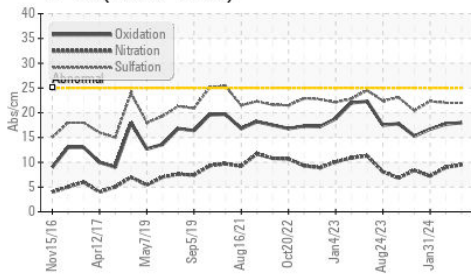
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.0	17.7	16.7
Base Number (BN)	mg KOH/g ASTM D2896 12.5	7.9	8.4	8.7

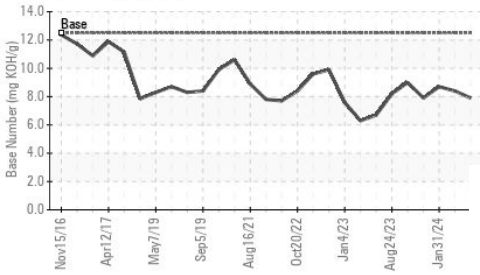


OIL ANALYSIS REPORT

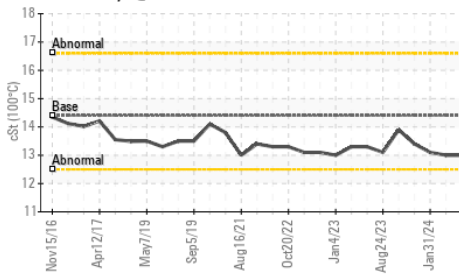
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

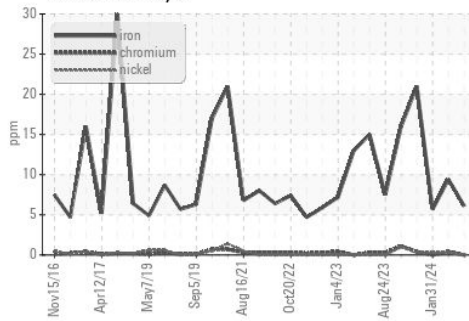


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

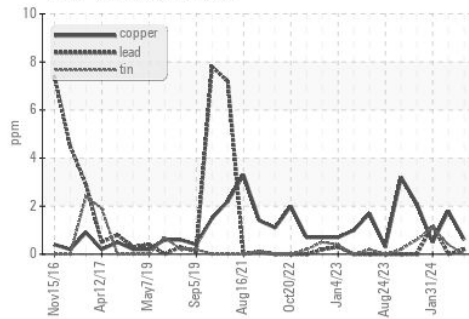
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.1

GRAPHS

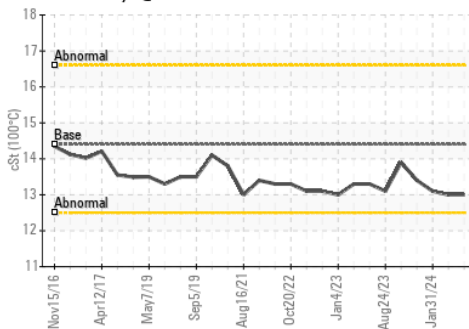
Ferrous Alloys



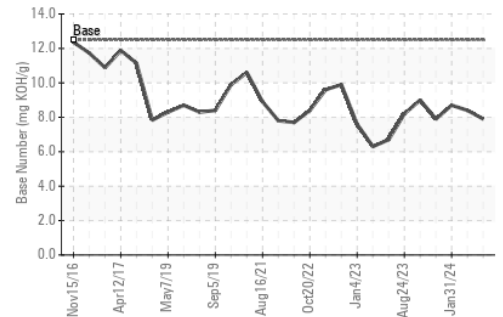
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0922389
 Lab Number : 06198954
 Unique Number : 11061077
 Test Package : FLEET

Received : 04 Jun 2024
 Tested : 05 Jun 2024
 Diagnosed : 05 Jun 2024 - Wes Davis

ASSOCIATED TERMINALS - CRANE

CONVENT, LA
 US 70723

Contact: GREG JOSEY
 gjosey@associatedterminals.com

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)

T:
 F: (225)562-3515