



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
RP GETTLFINGER (S/N TSJ00161)
Component
Starboard Main Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (225 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0018907	MW0055935	MW0055945
Sample Date		Client Info		15 Jun 2024	11 Apr 2024	06 Feb 2024
Machine Age	hrs	Client Info		91187	89689	88228
Oil Age	hrs	Client Info		174	714	5
Filter Age	hrs	Client Info		174	1461	5
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	4	6	2
Chromium	ppm	ASTM D5185m	>8	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>3	3	15	14
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	1	<1
Lead	ppm	ASTM D5185m	>18	0	0	0
Copper	ppm	ASTM D5185m	>80	4	3	0
Tin	ppm	ASTM D5185m	>14	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

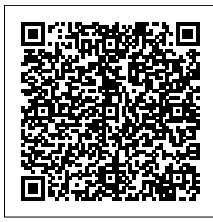
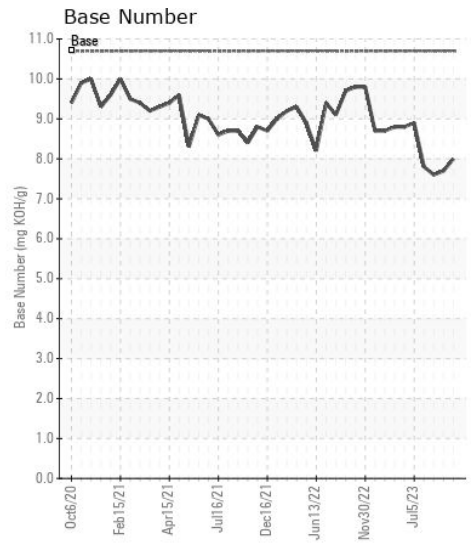
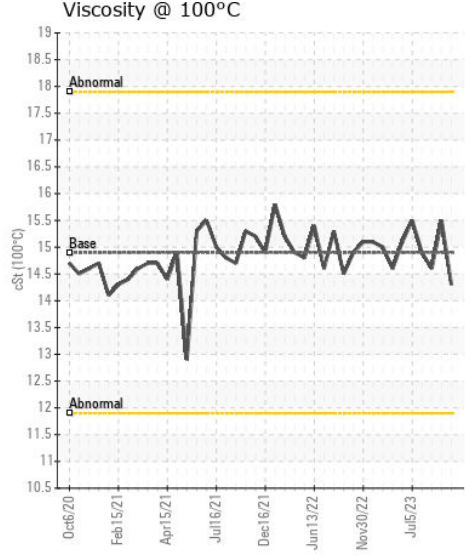
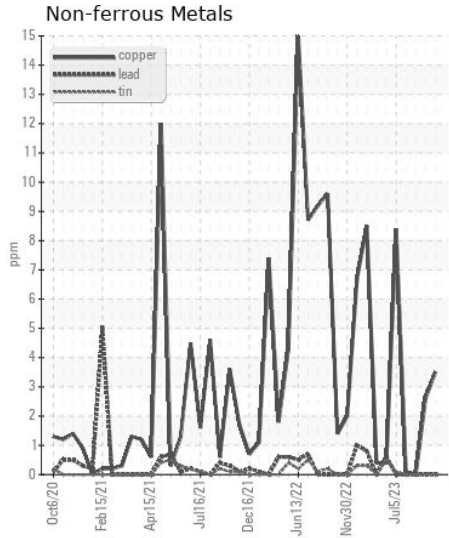
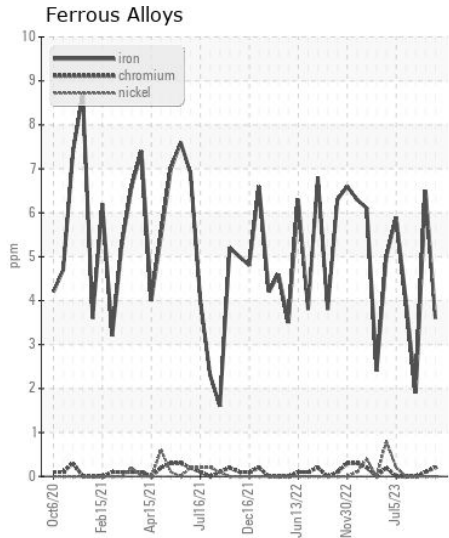
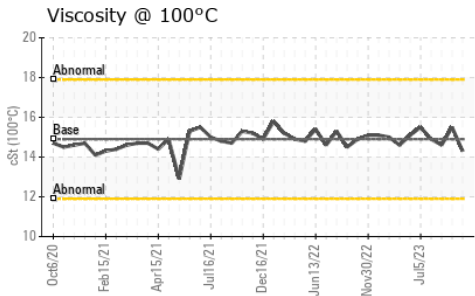
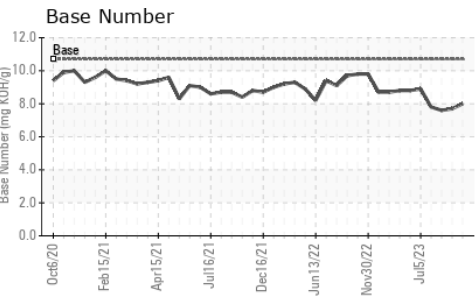
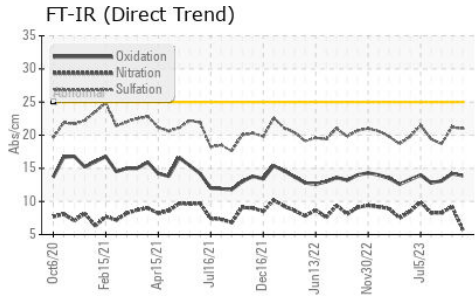
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	5
Potassium	ppm	ASTM D5185m	>20	2	2	3
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
Soot %	%	*ASTM D7844		0.6	1.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	9.2	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.2	18.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m	>75	<1	0	2
Boron	ppm	ASTM D5185m		336	106	99
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		73	38	28
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		469	808	694
Calcium	ppm	ASTM D5185m		1403	1700	1390
Phosphorus	ppm	ASTM D5185m	760	916	805	687
Zinc	ppm	ASTM D5185m	830	1124	952	779
Sulfur	ppm	ASTM D5185m	2770	2908	3561	2952
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.2	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.0	7.7	7.6
Visc @ 100°C	cSt	ASTM D445	14.9	14.3	15.5	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0018907
Lab Number : 06216604
Unique Number : 11089468
Test Package : MAR 2
Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Sean Felton

AMERICAN COMMERCIAL LINES
 PO BOX 610, 1701 E. MARKET STREET
 JEFFERSONVILLE, IN
 US 47130
 Contact: RONALD SCHNEIDER
 ronald.schneider@bargeacbl.com
 T:
 F: (812)288-1644

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)