

PROBLEM SUMMARY

Area [11019897] Machine Id EASAT EP0711/27.5.1 YVR ASDE OIL 2206 (S/N AR18089/9) Component Gearbox

Fluid MOBIL SHC 630 (80 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	SEVERE
Lithium	ppm	ASTM D5185(m)		<u> </u>	3	7
Particles >4µm		ASTM D7647	>20000	🔺 121655	▲ 50885	825033
Particles >6µm		ASTM D7647	>5000	<u> </u>	5071	91179
Particles >14µm		ASTM D7647	>640	🔺 1199	107	<u> </u>
Particles >21µm		ASTM D7647	>160	<u> </u>	22	149
Particles >38µm		ASTM D7647	>40	6 57	2	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 23/20/14	• 27/24/17

Customer Id: NAVSUR Sample No.: WC0625385 Lab Number: 02580797 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	

HISTORICAL DIAGNOSIS



20 Jul 2022 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Particles >4µm and oil cleanliness are abnormally high. Particles >6µm are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

28 Jul 2021 Diag: Kevin Marson



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Particles >6µm are severely high. Particles >14µm are notably high. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 Nov 2020 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles $>4\mu m$ are abnormally high. Particles $>6\mu m$ are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report







OIL ANALYSIS REPORT

Area [11019897] Machine Id EASAT EP0711/27.5.1 YVR ASDE OIL 2206 (S/N AR18089/9) Component

Gearbox

MOBIL SHC 630 (80 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Lithium (Li) level abnormal at 18ppm., indicates possible grease contamination. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

		un2006 May201	18 May2010 Dec2010 Dec2	010 Jul2015 Jul2018 Sep2019 Ju	izozi Augžoz	biotory ()
SAMPLE INFORM	ATION	method	iimit/base	current	nistory i	nistoryz
Sample Number		Client Info		WC0625385	WC0625382	WC0303978
Sample Date		Client Info		22 Aug 2023	20 Jul 2022	28 Jul 2021
Machine Age	yrs	Client Info		0	0	1
Oil Age	yrs	Client Info		1	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>30	6	3	4
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>8	0	0	0
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>8	8	2	6
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	1
Barium	maa	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	<1
Calcium	maa	ASTM D5185(m)		<1	<1	<1
Phosphorus	maa	ASTM D5185(m)		464	490	441
Zinc	maa	ASTM D5185(m)		14	4	11
Sulfur	ppm	ASTM D5185(m)		401	213	110
Lithium	ppm	ASTM D5185(m)		<u> </u>	3	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185(m)	< <u></u> 10	24	25	27
Sodium	nnm	ASTM D5185(m)	210	_ _	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	121655	▲ 50885	825033
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 5071	91179
Particles >14µm		ASTM D7647	>640	1199	107	9 00
Particles >21um		ASTM D7647	>160	597	22	149
Particles >38um		ASTM D7647	>40	5 7	2	0
Particles >71um		ASTM D7647	>10	5	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4/22/17	▲ 23/20/14	• 27/24/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Sample Rating Trend

ADDITIVES

Report Id: NAVSUR [WCAMIS] 02580797 (Generated: 09/07/2023 10:23:08) Rev: 1

Contact/Location: Paul Idasz - NAVSUR



Acid Number

Mav12/10 Dec15/10

Viscosity @ 40°C

0.60

0.00

450

400

35

25

20

St (40° 300

(B/HOX Ê0.3 Ê 0.2 .0 QC

OIL ANALYSIS REPORT









Bottom



150 Dec15/10 1-122/DB

> ISO 17025:2017 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (604)775-9659