

OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



RAW MATS Machine Id 1 REFINER DOOR

Component **Gearbox**

Gearbox

MOBIL SHC 636 (2 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Wear

High concentration of visible metal present. Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		lay2017 Se	p2017 Mar2018 Ji	ui2018 Nov2018 Mar2019	Jul2019	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0370939	WC0351483	WC0341568
Sample Date		Client Info		31 Jul 2019	08 Jul 2019	03 Jun 2019
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		731	869	938
Iron	ppm	ASTM D5185m	>200	<u>234</u>	<u>^</u> 220	<u>195</u>
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	21	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		42	40	29
Phosphorus	ppm	ASTM D5185m		220	214	204
Zinc	ppm	ASTM D5185m		<1	<1	0
Sulfur	ppm	ASTM D5185m		9013	10374	5974
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	7	7
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.2	0.013	0.013	0.009
ppm Water	ppm	ASTM D6304	>2000	130.4	130	90
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300			
Particles >6µm		ASTM D7647	>320			
Particles >14µm		ASTM D7647	>40			
Particles >21µm		ASTM D7647	>10			
Particles >38µm		ASTM D7647	>3			
Particles >71µm		ASTM D7647	>3			

ISO 4406 (c) >17/15/12

Oil Cleanliness



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