

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id

OAKLAND BEACH

Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

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.

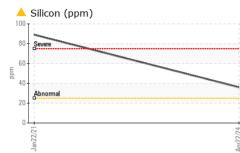
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP151995	RP0016572	
Sample Date		Client Info		22 Apr 2024	22 Jan 2021	
Machine Age	hrs	Client Info		48	12	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	13	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		3	12	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	4	5	
Lead	ppm	ASTM D5185m	>40	4	6	
Copper	ppm	ASTM D5185m	>330	9	21	
Tin	ppm	ASTM D5185m	>15	1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium		ASTM D5185m		<1	0	
	ppm	AUTHI DUTUUIII		~1	U	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		143	22	
Manganese	ppm	ASTM D5185m		2	2	
Magnesium	ppm	ASTM D5185m		870	45	
Calcium	ppm	ASTM D5185m		2814	2073	
Phosphorus	ppm	ASTM D5185m		373	631	
Zinc	ppm	ASTM D5185m		425	679	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	A 36	8 9	
Sodium	ppm	ASTM D5185m		32	1 45	
Potassium	ppm	ASTM D5185m	>20	5	8	
Fuel	%	ASTM D3524	>5	<1.0	0.4	
Water	%	ASTM D6304	>0.2	NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.2	4.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.4	16.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	49.6	11.3	
Acid Number (AN)	mg KOH/g	ASTM D8045			0.656	
Base Number (BN)	mg KOH/g	ASTM D2896		13.10	8.34	
:11:49) Rev: 1	0 0		Contor			

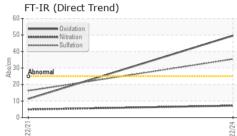
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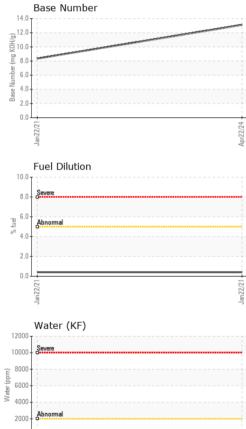
Contact/Location: JOHN BROSNAHAN - WARWARRI



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: 14 May 2024 125 ARTHUR DEVINE BLVD Tested : 17 May 2024 WARWICK, RI Diagnosed : 17 May 2024 - Sean Felton US 02888 Test Package : IND 2 (Additional Tests: FT-IR, FuelDilution, KV100, TBN) Contact: JOHN BROSNAHAN To discuss this sample report, contact Customer Service at 1-800-237-1369. john.s.brosnahan@warwickri.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Certificate 12367

Lab Number : 06179530

Unique Number : 11030856

Contact/Location: JOHN BROSNAHAN - WARWARRI